# EXCEPTION HANDLING AND FILE HANDLING IN PYTHON

# STUDY NOTES

- Syntax Error: Syntax errors are produced by Python when it is translating the source code into byte code. They usually indicate that there is something wrong with the syntax of the program. Example: Omitting the colon at the end of a def statement yields the somewhat redundant message SyntaxError: invalid syntax.
- Exception: An exception is an event, which occurs during the execution of a program that disrupts the normal flow of the program's instructions. In general, when a Python script encounters a situation that it cannot cope with, it raises an exception. An exception is a Python object that represents an error. When a Python script raises an exception, it must either handle the exception immediately otherwise it terminates and quits.
- User-defined exception: In Python, users can define custom exceptions by creating a new class. This exception class has to be derived, either directly or indirectly, from the built-in Exception class. Most of the built-in exceptions are also derived from this class.
- Raising exception: The raise keyword is used to raise an exception. The raise keyword raises an error and stops the control flow of the program.
- The try-except statement: If the Python program contains suspicious code that may throw the exception, we must place that code in the try block. The try block must be followed with the except statement, which contains a block of code that will be executed if there is some exception in the try block.

# **Syntax**

try:
 #block of code
except Exception1:
 #block of code
except Exception2:
 #block of code
#other code

- Finally clause: It defines a block of code to run when the try... except...else block is final. The finally block will be executed no matter if the try block raises an error or not. This can be useful to close objects and clean up resources.
- Built in exceptions: The table below shows built-in exceptions that are usually raised in Python:

Exceptions Exceptions	Description						
ArithmeticError	Raised when an error occurs in numeric calculations						
AssertionError	Raised when an assert statement fails						
AttributeError	Raised when attribute reference or assignment fails						
Exception	Base class for all exceptions						
EOFError	Raised when the input() method hits an "end of file" condition (EOF)						
FloatingPointError	Raised when a floating point calculation fails						

GeneratorExit	Raised when a generator is closed (with the close() method)
ImportError	Raised when an imported module does not exist
IndentationError	Raised when indendation is not correct
IndexError	Raised when an index of a sequence does not exist
KeyError	Raised when a key does not exist in a dictionary
KeyboardInterrupt	Raised when the user presses Ctrl+C, Ctrl+Z or Delete
LookupError	Raised when errors raised cant be found
MemoryError	Raised when a program runs out of memory
NameError	Raised when a variable does not exist
NotImplementedError	Raised when an abstract method requires an inherited class to override the method
OSError	Raised when a system related operation causes an error
OverflowError	Raised when the result of a numeric calculation is too large
ReferenceError	Raised when a weak reference object does not exist
RuntimeError	Raised when an error occurs that do not belong to any specific exceptions
StopIteration	Raised when the next() method of an iterator has no further values
SyntaxError	Raised when a syntax error occurs .
TabError	Raised when indentation consists of tabs or spaces
SystemError	Raised when a system error occurs
SystemExit	Raised when the sys.exit() function is called
TypeError	Raised when two different types are combined
UnboundLocalError	Raised when a local variable is referenced before assignment
UnicodeError	Raised when a unicode problem occurs
UnicodeEncodeError	Raised when a unicode encoding problem occurs
UnicodeDecodeError	Raised when a unicode decoding problem occurs
UnicodeTranslateError	Raised when a unicode translation problem occurs
ValueError	Raised when there is a wrong value in a specified data type
ZeroDivisionError	Raised when the second operator in a division is zero

• File Handling: File is a named location on disk to store related information. It is used to permanently store data in a non-volatile memory (e.g. hard disk).

There are three types of files that can be handled in Python, normal text files, binary files (written in binary language,0s and 1s) and CSV files.

Access Modes	Description					
r	Opens a file for reading only. The file pointer is placed at the beginning of the file. This is the default mode. Gives error if file does not exist.					
rb	Opens a file for reading only in binary format. The file pointer is placed at the beginning of the file. This is the default mode.					
r+	Opens a file for both reading and writing. The file pointer placed at the beginning of the file.					

rb+	Opens a file for both reading and writing in binary format. The file pointer is placed at the beginning of the file.
w	Opens a file for writing only. Overwrites the file if the file exists. If the file does not exist, creates a new file for writing.
wb	Opens a file for writing only in binary format. Overwrites the file if the file exists. If the file does not exist, creates a new file for writing.
w+	Opens a file for both writing and reading. Overwrites the existing file if the file exists. If the file does not exist, creates a new file for reading and writing.
wb+	Opens a file for both writing and reading in binary format. Overwrites the existing file if the file exists. If the file does not exist, creates a new file for reading and writing.
a	Opens a file for appending. The file pointer is at the end of the file if the file exists. That is, the file is in the append mode. If the file does not exist, it creates a new file for writing.
ab	Opens a file for appending in binary format. The file pointer is at the end of the file if the file exists. That is, the file is in the append mode. If the file does not exist, it creates a new file for writing.
a+	Opens a file for both appending and reading. The file pointer is at the end of the file if the file exists. The file opens in the append mode. If the file does not exist, it creates a new file for reading and writing.
ab+	Opens a file for both appending and reading in binary format. The file pointer is at the end of the file if the file exists. The file opens in the append mode. If the file does not exist, it creates a new file for reading and writing.

- Text File: Text files are structured as a sequence of lines, where each line includes a sequence of characters. Each line is terminated with a special character, called the EOL or End of Line character. There are several types, but the most common is the comma {,} or newline character. It ends the current line and tells the interpreter a new one has begun.
- In Python, a file operation takes place in the following order.
  - 1. Open a file
  - 2. Read or write (perform operation)
  - 3. Close the file
- Open a file: To open the file, use the built-in open() function. The open() function returns a file object, it is used to read or modify the file accordingly

#### **Syntax**

```
file_object = open("filename", "mode"
```

where

file object is the variable to add the file object.

Filename is the name of file

Mode(optional) tells which way the file will be used.

• Mode specifies whether we want to read 'r', write 'w' or append 'a' to the file. We also specify if we want to open the file in text mode or binary mode. The default is reading in text mode. In this mode, we get strings when reading from the file.

#### For example:

```
f=open("abc.txt","w") where
```

```
f is the object of file
"abc.txt" is the name of file
"w" is the mode
```

• Closing a file: The close() function closes the file and frees the memory space acquired by that file.

You should always close your files, in some cases, due to buffering, changes made to a file may not show until you close the file.

• With statement: The with statement will automatically close the file after the nested block of code.

```
with open("filename") as file:
do something with data
with open('abc.txt', 'w') as f:
    f.write('Hi there!')
```

- Writing in file: There are two ways to write in a file.
  - 1. write(): Inserts the string str1 in a single line in the text file.

```
File object.write(str1)
```

2. writelines(): For a list of string elements, each string is inserted in the text file. Used to insert multiple strings at a single time.

```
L = [str1, str2, str3]
File object.writelines(L)
```

• Reading from text file: Using read() function: Read n no of bytes and returns it in form of a string. If n is not specified, reads the entire file.

File\_object.read([n])

• Using readline(): Reads a line of the file and returns in form of a string.

If n is given, reads at most n bytes. However, does not reads more than one line, even if n exceeds the length of the line.

File object.readline([n])

• Using readlines(): Reads all the lines and return them as each line a string element in a list.

File object.readlines()

- Binary Files: A binary file is a file stored in binary format. A binary file is computer-readable but not human-readable. All executable programs are stored in binary files, as are most numeric data files. In contrast, text files are stored in a form (usually ASCII) that is human-readable.
- Differentiate between Binary Files and Text Files: Text files: In this type of file, each line of text is terminated with a special character called EOL (End of Line), which is the new line character ('\n') in Python, by default. A text file stores data in the form of alphabets, digits and other special symbols by storing their ASCII values and are in a human readable format.
- Binary files: In this type of file, there is no terminator for a line and the data is stored after converting it into machine understandable binary language. A binary file stores the data in the same way as stored in the memory. The .exe files, mp3 file, image files, word documents are some of the examples of binary files. We can't read a binary file using a text editor.
- **Pickle:** Python Pickle is used to serialize and deserialize a Python object structure. It's the process of converting a Python object into a byte stream to store it in a file/database. Any object on Python can be pickled so that it can be saved on disk.

- Writing in Binary File: For writing in binary file, open the file in 'wb'(or 'w+b') mode. The 'w' means that you'll be writing to the file, and 'b' refers to binary mode. f=open(filename, "wb")
- Using dump(): dump() is used for writing in file. It takes two parameters, the object you want to pickle and the file to which the object has to be saved. dump('object to write', 'file object')
- Reading from file: For reading a binary file, open the file in 'rb' mode, 'r' means you'll be reading from file. f=open(filename, "rb")
- nd then

<ul> <li>using load(): load() is used assigned the contents of file</li> </ul>		ces o	ne 'file object' paramet	ter, r	eading data from an
AULTIPLE CHOICE QUESTIONS  1. How many except statements can a try-except block have?  (a) Zero (b) One (c) More than one (d) More than zero  2. When will the else part of try-except-else be executed? (a) Always (b) When an exception occurs (c) When no exception occurs (d) When an exception occurs in to except block  3. Is the following Python code valid?  try:  # Do something except:  # Do something finally: # Do something (a) No, there is no such thing as finally (b) No, finally cannot be used with except (c) No, finally must come before except  4. Can one block of except statements handle multiple exception? (a) Yes, like except TypeError, SyntaxError [] (b) Yes, like except [TypeError, SyntaxError]					
MULTIPLE CHOICE QUESTIONS  1. How many except statements can a try-except block have?  (a) Zero (b) One (c) More than one (d) More than zero  2. When will the else part of try-except-else be executed? (a) Always (b) When an exception occurs (c) When no exception occurs (d) When an exception occurs in to except block  3. Is the following Python code valid?  try:  # Do something except:  # Do something finally:  # Do something (a) No, there is no such thing as finally (b) No, finally cannot be used with except (d) Yes  4. Can one block of except statements handle multiple exception? (a) Yes, like except TypeError, SyntaxError [,] (b) Yes, like except [TypeError, SyntaxError] (c) No (d) None of the mentioned  5. When is the finally block executed?					
	MULTIPLE CHOIC	EG	QUESTIONS		
			More than one	(d)	200
(a) Always		(b)	_		S
try: # Do something	de valid?		*		
<pre># Do something   finally:</pre>	ng				
, ,		,	-	use	d with except
(a) Yes, like except Typel	_	(b)	Yes, like except [Type		or, SyntaxError]
(a) When there is no exce		, ,	When there is an excessived	eptic	on
6. Which of the following blo (a) except	cks will be executed whether (b) else		exception is thrown o		t? assert
7. Which block lets you test a (a) try	block of code for errors? (b) except	(c)	finally	(d)	None of these
<pre>8. What will be output for the try: print(x) except: print(""An exception</pre>				1	
(a) x (c) Error			An exception occurred None of these	d	

9.	Which of the following eleme (a) try	nts are used in Exception b) except		ndling in Python? finally	(d)	All of these
10.	Syntax Errors are also known (a) Logical Errors (	as: b) Parsing Errors	(c)	Code Errors	(d)	Programming Errors
11.	"wb" mode in file handling at (a) w*b (	so can be written as: b) w/b	(c)	w+b	(d)	None of these
12.	(a) write function is used to	write in pickle file. b) dump	(c)	store	(d)	pick
13.	Mode used for reading from p (a) rb (	oickle file isb) r	(c)	br	(d)	read
14.	(a) read function is used to	read from pickle file in F b) readdata		on. pickread	(d)	load
15.	When file is opened as "with (a) read (	open" then file is b) write		automatically.	(d)	open
16.	Which of the following option  (a) If file opens in r mode,  (b) If file opens in r mode,  (c) If file opens in r mode,  (d) If file opens in r mode,	file is opened for reading file is opened for reading file is opened for writing	and only	writing both		. A
17.	Which of the following option (i) If file is opens in r mod (ii) If file is opens in r mod (iii) If file is opens in r+ mo (iv) If file is opens in r +mo (a) only (i)	e, the file pointer is place e, the file pointer is place de, the file pointer is place de, the file pointer is place	ed at ced a ced a	the end of the file at the beginning of the at the end of the file	file	(ii) and iv
18.	Which of the following option (a) The default mode in text (c) The default mode in text	file is r	` '	The default mode in t		
19.	Which of the following option (a) Opening file in rb mode (b) Opening file in rb mode, (c) rb mode is the default m (d) All are correct	means opened a file for the file pointer is placed		•		
20.	Which of the following option  (a) Opening file in r+ mode  (b) When file is opened in r  (c) r+ is the default mode  (d) All of the above	means opening a file for		•	the f	ĭle
21.	Which of the following option  (a) myfile = open('Myfile.tx  (c) myfile = open('Myfile.tx	t'); myfile.read()	(b)	te text file as String? myfile = open('Myfile myfile = open('Myfile		
	Which of the following option in a list?  (a) myfile = open('Myfile.tx (c) myfile = open('Myfile.tx	t'); myfile.read()	(b)	lines and return them  myfile = open('Myfile  myfile = open('Myfile	.txt'	,'r'); myfile.read(n)

23.	(a) myfile = open('Myfi	otions can be used to read a le.txt'); myfile.read() le.txt'); myfile.readline(n)	(b)	myfile = open('Myf	ile.tx	t','r'); myfile.read(n)
24.	txt? Assuming the file hav  (a) myfile = open('Myfi	_	(b)	myfile = open('Myfi myfile = open('Myfi	ile.txt	t','r'); myfile.read(2)
25.	Assume that the position of option can be used to read (i) myfile.read() (a) (i) and (iii)		(iii)	myfile.readline() (ii) and (iv)	(iv)	le. Which of the following myfile.readlines() (ii) and (iii)
26.		of the file pointer is at the b from the beginning of the (b) myfile.readline()	file?	ing of 3 <sup>rd</sup> line in a temperature myfile.readlines()		le. Which of the following  None of these
27.	Which of the following is (a) f.close	the correct option to close t (b) f.close()		e? f(close)	(d)	close(f)
28.	function closes (a) close()	the file and frees the memor (b) close	-	closed()		closes()
29.	Identify the correct option  (a) myfile = open('student')  (c) myfile = open('student')		(b)	pen the binary file in myfile = open('stude all of the above		
30.	Identify the correct option (i) myfile = open('studen (iii) myfile = open('studen (a) only (i)		(ii) (iv)	pen the binary file fo myfile = open('stude myfile = open('stude both (iii) and (iv)	nt','v nt',rb	vb+') v+wb+)
31.	<ul><li>(a) Opens a file for appe</li><li>(b) The file pointer is at</li></ul>	nen a file is opened in 'a' m nding. the end of the file if the file xist, it creates a new file for	ode?	ets.		
32.	<ul><li>(a) A binary file stores th</li><li>(b) We can read a binary</li></ul>	le, image files, word docum	stored	in the memory.	ples	of binary files.
33.	Which type of file stores the (a) Text	ne data in the same way as s (b) Binary	stored (c)	-	(d)	All of these
	Observe the following code File = open("Mydata" File.close()					
	Fill the Blank 1 with staten (a) File.write("ABC")	nent to write "ABC" in the (b) File.writelines("ABC")			(d)	File.writes("ABC")
35.	EOL stands for  (a) End of Line	(b) End of List	(c) ]	End of Lists	(d)	None of these

36.	Which of the following statements is corre (a) p.dump(L,f) (b) L.dump(p.dump(L,f))		<pre>p is the object of pickle library?   (d) p.dump(f,L)</pre>
37.	(a) Random (b) Math	ing and de-serializing a Python object (c) Serial	structure. (d) Pickle
38.	Which statement is correct to open binary  (a) f.open("file",wb)  (c) open(f="file",bw)		
39.	Which statement is correct to unpickle day of list?  (a) c=b.load(a)  (b) a=b.load(a)		oickle object and c is the name (d) a=c.load(b)
40.	Which of the following statements is corrected (a) import pickle as i (c) import Pickle as P	(b) import pickles as p (d) import Pickles as I	
41.	Which of the following options is incorrect  (a) Reading and Writing both can be don  (b) When file is opened in r+ mode the  (c) Only Reading in binary file can be don  (d) When file in opened in rb+ mode the	ne when file is opened in r+ mode. file pointer get placed at the beginnin lone when file is opened in rb+ mode.	
42.	Which of the following options is correct?  (a) Opens a file in w mode for writing of (b) If we try to open a text file in w mode (c) If we try to open a text file in w mode (d) All of the above	only ode that exists, overwrites the file	reated.
43.	Which of the following options is correct?  (a) Opens a file for writing only in binar  (b) If we try to open a binary file in wb  (c) If we try to open a binary file in wb  (d) All of the above	ry file in wb mode mode that exists, overwrites the file	s Created.
44.	Which of the following options is not corr  (a) If we try to open text file in r mode  (b) If we try to open file in w mode that  (c) If we try to open file in r+ mode that  (d) If we try to open file in w+ mode that	that does not exist, an error occurs. t does not exist, the file gets created. t does not exist, no error occurs.	
45.	Which of the following options is not correctly (a) If we try to open text file in r mode (b) If we try to open file in wb mode that (c) If we try to open file in rb+ mode that (d) If we try to open file in wb+ mode that	that does not exist, an error occurs. at does not exist, the file gets created. at does not exist, no error occurs.	
46.	The file pointer placed at the beginning of (a) r (b) r+	the file when the file is opened in: (c) rb	(d) All of these
47.	The file pointer placed at the beginning of (a) r mode (b) w mode	the file when the file is opened in: (c) a mode	(d) All of these
48.	The file pointer placed at the end of the file (a) r mode (b) w mode	le when the file is opened in: (c) a mode	(d) All of these

49.	The file pointer placed at the beginni	ng of the file when th	e file is opened in:	
	(a) a mode (b) ab r		a+ mode	(d) all of these
50.	Rahul is trying to write a Dictionary following code written by him.  import pickle as p	Dic={1:'Aman',2:'Ka	nran',3:'Diya'}on a bin	ary file test.bin. Consider the
	Dic={1: 'Aman', 2: 'Karan', 3: 'Di	.ya'}		
	with open('test','wb') as f			
		ement 1		
	Identify the missing code in Statemer  (a) p=dump(f)  (b) p.du		p,dump(f,Dic)	(d) f.dump(Dic,p)
51.	Rahul is trying to read data from a bir by him.	ary file test.bin and st	ore it into List L. Consi	der the following code written
	import pickle as p			
	with open('test','rb') as f	:		
- 9	#statemer			
	Identify the missing code if (a) f=p.load(L) (b) p=p	n Statement 1. load(L) (c)	L=p.load(f)	(d) f=LJond(p)
52.	Manoj is trying to open binary file to file "STUDENT.DAT" for writing on (a) F= open("STUDENT.DAT", 'wb (b) F= open("STUDENT.DAT", 'w') (c) F= open("STUDENT.DAT", 'wb (d) F= open("STUDENT.DAT", 'w+	y in binary format.  ')  +')	some problems. Select	the correct option to open the
53.	<ul> <li>(a) 'r+' opens a file for both readin</li> <li>(b) 'w+' opens a file for both writing a new one if it does not exist.</li> <li>(c) 'wb' opens a file for reading and one if it does not exist.</li> <li>(d) 'a' opens a file for appending.</li> </ul>	g and writing. File ob ng and reading. Adds I writing in binary for	ject points to its begins at the end of the existing mat. Overwrites the file	ing file if it exists and creates a new
54.	Suppose content of 'Myfile.txt' is:			
	Twinkle twinkle little star			
	How I wonder what you are			
	Up above the world so high Like a diamond in the sky			
	What will be the output of the follow	ing code?		
	<pre>f = open("Myfile.txt")</pre>	B		
	data=f.readline()			
	data=f.readline()			
	print(data)			
	f.close()	(1)	II I 1 1 1	
	(a) Twinkle twinkle little star		How I wonder what y	
	(c) Twinkle twinkle little star	(a)	Twinkle twinkle little How I wonder what y	
	How I wonder what you are Up above the world so high		110w 1 wonder what y	ou are
	Like a diamond in the sky			

55.	Suppose content of 'Myfile.tx Twinkle twinkle little star How I wonder what you are Up above the world so high Like a diamond in the sky What will be the output of th f = open ("Myfile.txt") data=f.readline() data=f.read() print(data) f.close() (a) Twinkle twinkle little st (c) Twinkle twinkle little st	e following code?	, ,	How I wonder what How I wonder what	-	
	How I wonder what you			Up above the world Like a diamond in the		
	Up above the world so Like a diamond in the s			Like a diamond in a	ic sk	<i>y</i> .
56.	Suppose content of 'abc.txt' i India is Great	s:		to.		är
	I love			,		. 1
	my India What will be the output of th	a fallowing code?		(t		
	What will be the output of th f=open('abc.txt','r')	e following code:				
	data=f.readline(20)			-		
	print(data)					
	f.close() (a) India is Great	(b) India is Great	(c)	India is Great	(d)	India is Great
	I lov	I love	(0)	maia is Great	( <b>u</b> )	I love my I
57.	Suppose content of 'abc.txt' i	s:				
	India is Great					
	I love my India					
	What will be the output of th	e following code?				
	f=open('abc.txt','r')					
	<pre>data=f.read(20) print(data)</pre>					
	f.close()					
	(a) India is Great I lov	(b) India is Great I love	(c)	India is Great	(d)	India is Great I love
58.	Which of the following option (a) file=f.readlines() print(file[1])	ns can be used to read the (b) file=f.readline() print(file[1])		d line of a text file? file=f.read() print(file[1])	(d)	file=f.readlines() print(file[2])
59.	Which of the following is not (a) rb	t a file access mode? (b) rb+	(c)	wb	(d)	rw
60.	In f=open("abc.txt","w"), f re  (a) File name  (c) File access mode	fers to?	. ,	File object File pointer		
	(c) The access mode		(4)	The pointer		

- 61. In f=open("abc.txt","w"), 'w' refers to:
  (a) File name
- (b) File object

(c) File access mode

- (d) File pointer
- 62. In f=open("abc.txt","w"), "abc.txt" refers to:
  - (a) file name

(b) file object

(c) file access mode

- (d) function
- 63. Which statement is correct to open the file using with statement?
  - (a) with open('abc.txt', 'w') to f:

(b) open('abc.txt', 'w') with f:

(c) f=with open('abc.txt', 'w')

- (d) with open('abc.txt', 'w') as f:
- **64.** When the method display() is executed it read lines from a text file DIARY.TXT, and display those lines, which are starting with an alphabet 'P'.

```
def display():
    file=open('DIARY.TXT','r')
    l=file.readlines()
    for line in l:
        if _____ : # statement 1
        print (line)
    file.close()
```

Select the appropriate statement to fill the statement 1.

(a) line[1] = "P"

(b) line[0] = P'

(c) line(0) = -P'

- (d) line[0] = -P'
- 65. When the function ABLINES() is executed, it read contents from a text file LINES.TXT, to display those lines, which are either starting with an alphabet 'A' or starting with alphabet 'B'.

```
def ABLINES():
    file=open('LINES.TXT','r')
    lines = file.readlines()
    for w in lines:
        if ______: #statement 1
        print (w)
    file.close()
```

Select the appropriate statement to fill the statement 1

(i) w[0] = = "A" or w[0] = = "B"

(ii) w[0] in ["A","B"]

(iii) w[0] = "A" and w[0] = ="B"

(iv) w[0] = "A", "B"

- (a) (i) and (ii)
- (b) (ii) and (iv)
- (c) (i) and (iv)
- (d) (ii) and (iii)

### INPUT TEXT BASED MCQs

#### Read the following passage and answer the following questions (66 to 69).

It is a common misconception that a character can be expressed using a single character. That is not true. Some characters that take up more than a character when expressed are '\n', '\r', etc. So, it is allowed to use single quotes around this character. Also, in Python you can express a string by enclosing it within single, double or triple quotes also. An important character that makes sense to discuss is the EOF character. It is present at the end of the file as a delimiter. When you open a file in Python, a file object is created and all operations of the file are done via the file object after that. To read the contents of the file character by character, read() routine may be used. To read a line at a time, readlines() routine may be used. While you should close the file object using close(), if you use the with method, the file object opens for use and after its use in the code block, closes also automatically.

- 66. How many characters does the string '\t' contain?
  - (a) One

- (b) Two
- (c) Three
- (d) Four

- 67. You may insert multiple strings at the input point of the file using:
  - (a) Read()
- (b) readline()
- (c) writelines()
- (d) write()

- 68. In Python, what does the readlines() routine return?
  - (a) It returns a list of lines

(b) It returns the EOF character

(c) It returns the number of lines

- (d) None of these
- 69. What does the read() routine take as its input argument?
  - (a) Number of characters to read at a time
  - (b) The file object
  - (c) The string variable name to read the characters into
  - (d) Nothing

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Multiple Cl	hoice Quest	ions							P. 4.19
1. (d)	2. (c)	3. (d)	<b>4.</b> (a)	<b>5.</b> (d) -	6. (c)	7. (a) =	8. (b)	9. (d)	10. (b)
11. (c)	<b>12.</b> (b)	13. (a)	14. (a)	15. (c)	<b>16.</b> (a)	<b>17.</b> (b)	18. (a)	19. (d)	<b>20.</b> (b)
21. (a)	= 22. (d)	<b>23.</b> (b)	424. (a) +	<b>25.</b> (b)	<b>26.</b> (d)	<b>27.</b> (b)	<b>28.</b> (a)	<b>29.</b> (d)	<b>30.</b> (d)
<b>31.</b> (d)	32. (b)	<b>33.</b> (b)	<b>34.</b> (a)	35. (a)	36. (a)	- <b>37.</b> (d)	. 38. (b)	<b>≠ 39.</b> (a)	<b>40.</b> (a)
<b>41.</b> (b)	<b>42.</b> (d)	43. (d) 🐇	- 44. (c)	<b>45.</b> (c)	46. (d)	<b>47.</b> (a)	48. (c)	<b>49.</b> (d)	<b>50.</b> (b)
<b>51.</b> (c)	52. (a)	<b>53.</b> (a)	<b>54.</b> (b)	<b>55.</b> (d)	<b>56.</b> (c)	57. (a)	58. (a)	<b>59.</b> (d)	<b>60.</b> (b)
<b>61.</b> (c)	<b>62.</b> (a)	<b>63.</b> (d)	<b>64.</b> (d)	<b>65.</b> (a)					
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<b>66.</b> (a)	<b>67.</b> (c)	<b>68.</b> (a)	<b>69.</b> (a)	average training record	Transfell				, v. 106

## HINTS/EXPLANATION

- 1. There has to be at least one except statement.
- 2. The else part is executed when no exception occurs.
- 4. Each type of exception can be specified directly. There is no need to put it in a list.
- 5. The finally block is always executed.
- 7. The try block lets you test a block of code for errors.
- 8. An exception occurred be the output for the following code because the try block will generate an error, because x is not defined.
- 55. The first line is read using readline(). The read() reads the rest of the lines.
- 57. The read() reads the first 20 characters from the beginning of the file. Newline or '\n' counts as one character.
- 63. "abc.txt" refers to the file to be opened here.
- 65. The condition of equality is line[0] = 'P'.
- 68. EOF for End of File and EOL for End of Line.