Review Test Submission: Quiz # 3 30 March

Question 1

What is the output of the following code:

```
LIMIT = 99
factorial = 1
i = 0

while factorial < LIMIT:
    i = i + 1
    factorial = factorial * i
    print(factorial)
```

Question 2

What is the output of the following code:

```
START = 100
END = 0
i = START
j = 100

while i >= END:
    print(i)
    i = i + j

    i = i - 1
    j = j - i
```

Question 3

What is the output of the following code:

```
for i in range(1, -20, -4):
    if i < -8 and i > -12:
        print("Limit crossed.")
        print(i)
    else:
        print(i)
```

Question 4

What is the output of the following code:

```
temperature = 35.8
moisture = 29.6
flag = False

if temperature < 0 or temperature > 350:
    print("Saturated.")
    if moisture <= 18.6:
        flag = True
    else:
        flag = False
        print("Malfunction - change heater.")
elif temperature >= 0 and temperature <= 250:
    print("Unsaturated.")
    if moisture <= 22:
        flag = False
        print("Malfunction - change fan.")
    else:
        flag = True
        print("Service required.")
else:
    print("Temperature sensor not working.")
    print(flag)
```

Question 5

A while loop requires the loop variable to be initialized before starting the loop.

Question 6

What is the output of the following code:

```
name = "Muhammad Ahmad"

if(" " in name):
    print("The initials are: ", name[name.find("M")], name[name.find("A")])
else:
    print("Invalid name.")
```

Question 7

What is the output of the following code:

```
AGE_LIMIT = 65
salary = 45000
age = 65


if salary > 35000:
    if age < AGE_LIMIT:
        print("In service.")
    else:
        print("Retired.")
if salary > 25000:
    print("Below scale.")
    if age >= AGE_LIMIT:
        print("Eligible for award.")
    else:
        print("In service.")
elif salary > 60000 and age >= AGE_LIMIT:
    print("Retired")
else:
    print("Invalid record.")
```

← OK

Review Test Submission: Quiz # 4 (6 April)

Question 1

What is the output of the following code:

```
from random import randint

def generateRandom(start, stop):
    print(randint(start, stop+7), randint(start+9, stop))

for i in range(6):
    generateRandom(1,1)
```

Choices:

a. Random numnbers.

b. Six rows & two columns of random numbers.

c. Nothing printed on the screen

d. Error.

Question 2

The 'random' function of random library gives random integers.

Question 3

Write the missing line to get the required output. Code and the required output are shown below:

CODE:

```
string1 = "Good"
string2 = "afternoon!"
_____________________<< Missing line
print(string2)
```

REQUIRED OUTPUT:

```
Good#!#!afternoon!
```

Question 4

What is the output of the following code:

```
myString = "The fox jumped 2 fenceS 3 times!"
caps = 0
digits = 0
position = 0

while position < len(myString):
    if myString[position].isupper():
        print(myString[position], position)
        caps = caps + 1
    elif myString[position].isdigit():
        print(myString[position], position)
        digits = digits + 1

    position = position + 1
```

Choices:

a. Error

b. Infinite loop

c. T 0
   2 15
   S 22
   3 24

d. T 0
   2 15
   3 24

Question 5

What is the output of the following code:

```
j = 0
for i in range(0,5):
    for j in range(i):
        print(i+j, end = " ")
        j = j - 1
    print()
```

Choices:

a. 1
   2 3
   3 4 5
   4 5 6 7

b. 1
   2 3
   3 4 5
   4 5 6 7
   5 6 7 8 9

c. 1 2 3 3 4 5 4 5 6 7

d. Error

Question 6

What is the output of the following code:

```
PI = 3.14

def morePrecise():
    PI = 3.1416

morePrecise()

print("Area of circle with radius 2 = ", PI*4)
```

Choices:

a. Error.

b. Area of circle with radius 2 = 12.56

c. Area of circle with radius 2 = 12.5664

d. Nothing printed on the screen.

Question 7

`isupper()` is a method related to strings.

Question 8

One function can access the variables of another function.

Question 9

Python does not allow to define a `while` loop inside a `for` loop.

Question 10

What is the output of the following code:

```
def main() :
   resultA = factorX(2)
   resultB = factorX(10)
   print("First result: %.2f" %resultA)
   print("Second result: %.2f" %resultB)


def factorX(level) :
   X = level / (level - 6.34)
   return X
```

Choices:

a. Error because main function is not called.

b. Nothing printed on the screen.

c. First result: -0.46
   Second result: 2.73

d. Error because main is defined before factorX function.

Question 11

What is the output of the following code:

```
myString = "The fox jumped 2 fences 3 times!"
mm = myString[0:len(myString):5]

print(mm)
```

Choices:

a. Tom2c s

b. hxp et!

c. Tfje c3m

d. Error.

Question 12

Function defined in Python always returns a value.

← OK

Review Test Submission: Quiz # 5 (13 April)

Question 1

What is the output of the following code:

```
t = (99, 109, 119)

t[3] = 129

print(t)
```

CHOICES:

a. (99, 109, 119, 129)

b. Error

c. Blank line

d. (99, 109, 119)

Question 2

What is the output of the following code:

```
course = {"Ahmed":"ICS104", "Muhammad":"ICS104", "Andrew":"CISE402", "Jack":"EE122", "Ben":"ME310"}
name = "Mark"

myCourse = course.get(name, "No records found.")
print(myCourse)
```

CHOICES:

a. Error: Two keys cannot have a same value

b. Error: Wrong syntax of get function

c. No records found

d. None of the above

Question 3

Difference between List and String is: **(Select all correct answers)**

a. A List can hold values of any type, whereas Strings are sequences of character only.

b. You cannot change the characters in the String but List elements can be changed.

c. None of the above.

d. List and String are the same.

Question 4

In Python, List index starts at 1.

Question 5

The key:value pairs of the dictionary are ordered and can be accessed by their position.

Question 6

What is the output of the following code:

```
DOB = "03_January_1992"
index = []

for i in range(len(DOB)):
    if DOB[i] == '_':
        index.append(i)

day = DOB[0 : index[0]]
month = DOB[index[0] : index[1]]
year = DOB[index[1] : len(DOB)]

print(day, month, year)
```

CHOICES:

a. 03 January 1992

b. Error

c. Blank line

d. 03 _January _1992

Question 7

A List can store integers and float numbers at the same time.

Question 8

The _____ method removes an element of the List by value.

The _____ method removes an element of the List by index.

CHOICES:

a. append, remove

b. pop, remove

c. remove, pop

d. There are no methods for these operations.

Question 9

List variable name represents the address of that List.

Question 10

What is the output of the following code:

```
vowels = ['a','e','i','o','u']
characters = vowels

characters[2] = 'p'

print(vowels)
```

CHOICES:

a. ['a','e','i','o','u']

b. ['a','e','p','o','u']

c. Error

d. ['a','e','o','u']

← OK

Review Test Submission: Quiz # 6 (20 April)

Question 1

In,

```
my_file = open("weather_data_DMM.txt", "r")
```

`my_file` is:

a. Exception

b. File object

c. Constant

d. None of the above.

Answers: a

b

c

d

Question 2

To show an appropriate error message, _____ is used:

a. try and except

b. if statement

c. raise

d. None of the above

Answers: a

b

c

d

Question 3

Choose all correct options:

split() method:

a. Separates the words in a line of text.

b. Returns the words as a list.

c. Does not accept integers or floats.

d. Returns each word as a separate string printed on a separate line.

Answers: a

b

c

d

Question 4

Choose all correct options:

The `finally` clause:

a. Cannot be used to close the files

b. Includes the code that has to be executed whether or not an exception is raised.

c. In case if some exception was not handled by except block, it is re-raised after execution of finally block.

d. Is always written after all except blocks are written.

Answers: a

b

c

d

Question 5

Select all correct options:

`readline()` method:

a. Is used to read a line of text from the input file.

b. Does not require to open the input file first.

c. Also reads the newline character at the end of line.

d. Calling `readline()` after reaching the end of file marker gives error.

Answers: a
b
c
d

Question 6

To read multiple lines in an input file, the sentinel value used is:

a. New line character

b. Zero

c. Empty string

d. A unique character is written at the end of the input file.

Answers: a
b
c
d

Question 7

Suppose the input file (input.txt) has following two lines:

```
one
two
```

What is the output of the following code:

```
inputFile = open("input.txt","r")

char = inputFile.read(2)

while char !="":
    char = inputFile.read(2)
    print(char)

inputFile.close()
```

a.

```
e

tw
o
```

b.

```
on
e

tw
o
```

c.

```
one

two
```

```
d. Error
```

Answers: a
b
c
d

Question 8

If the output file already exists in the directory, new data is appended to it.

Answers: True
False

Question 9

When you raise an exception, execution continues with the next statement until an exception handler is encountered.

Answers: True
False

Question 10

The `readline()` function can only return strings.

Answers: True
False

← OK