Answersheet of Assignment 1
Batch: DS2404
Date: 7/4/2024 Last Date of Submission:11/4/2024(11:59 p.m.)
Note: (Correct Answers are marked with RED and Also separate Answer-sheet is attached below)

MCQ

Q1)
What will be the output of the following code snippet?

```
def func(a, b):
    return b if a == 0
else:
     func(b % a, a)
print(func(30, 75))
```

a) 10
b) 20
c) 15
d) 0

Q2)

```
numbers = (4, 7, 19, 2, 89, 45, 72, 22)
 sorted_numbers =sorted(numbers)
 even = lambda a: a % 2 == 0
 even_numbers = filter(even, sorted_numbers)
print(type(even_numbers))
```

a) Int
b) Filter
c) List
d) Tuple

Q3)
As what datatype are the *args stored, when passed into
a) Tuple
b) List
c) Dictionary
d) none

Q4)

```
set1 = {14, 3, 55}
set2 = {82, 49, 62}
set3={99,22,17}
print(len(set1 + set2 + set3))
```

a) 105
b) 270
c) 0
d) Error

Q5)
What keyword is used in Python to raise exceptions?
a) raise
b) try
c) goto
d) except

Q6)
Which of the following modules need to be imported to handle date time computations in Python?
a) timedate
b) date
c) datetime
d) time

Q7)
What will be the output of the following code snippet?
print(43 + (7 + 5)**(1 + 1))**
a) 248
b) 169
c) 208
d) 233

Q8)
Which of the following functions converts date to corresponding time in Python?
a) strptime
b) strftime
c) both a) and b)
d) None

Q9)
The python tuple is____in nature.
a) mutable
b) immutable
c) unchangeable
d) none

Q10)
The___is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.
a) range()
b) set()
c) dictionary{}
d) None of the mentioned above

Q11)

Amongst which of the following is a function which does not have any name?

a) Del function
b) Show function
c) Lambda function
d) None of the mentioned above

Q12)

The module Pickle is used to___.

a) Serializing Python object structure
b) De-serializing Python object structure
c) Both A and B
d) None of the mentioned above

Q13)

Amongst which of the following is / are the method of convert Python objects for writing data ina binary file?

a) set() method
b) dump() method
c) load() method
d) None of the mentioned above

Q14)

Amongst which of the following is / are the method used to unpickling data from a binary file?

a) load()
b) set() method
c) dump() method
d) None of the mentioned above

Q15)

A text file contains only textual information consisting of_.

a) Alphabets
b) Numbers
c) Special symbols
e) All of the mentioned above

Q16)

Which Python code could replace the ellipsis (...) below to get the following output? (Select all thatapply.)

```
captains = { "Enterprise": "Picard","Voyager": "Janeway","Defiant": "Sisko",}
Enterprise Picard,
   Voyager Janeway
   Defiant Sisko
```

a) for ship, captain in captains.items():
        print(ship, captain)

b) for ship in captains:
print(ship, captains[ship])
c) for ship in captains:
print(ship, captains)
d) both a and b

Q17)
Which of the following lines of code will create an empty dictionary named captains?
a) captains = {dict}
b) type(captains)
c) captains.dict()
d) captains = {}

Q18)
Now you have your empty dictionary named captains. It's time to add some data! Specifically, you want to add the key-value pairs "Enterprise": "Picard", "Voyager": "Janeway",and "Defiant": "Sisko".
Which of the following code snippets will successfully add these key-value pairs to theexisting captains dictionary?
a) captains{"Enterprise" = "Picard"}captains{"Voyager" = "Janeway"}
captains{"Defiant" = "Sisko"}
b) captains["Enterprise"] = "Picard"captains["Voyager"] = "Janeway"
captains["Defiant"] = "Sisko"
c) captains = { "Enterprise": "Picard","Voyager": "Janeway","Defiant": "Sisko",}
d) None of the above

Q19)
You're really building out the Federation Starfleet now! Here's what you have:
captains = {"Enterprise": "Picard","Voyager": "Janeway","Defiant": "Sisko",
"Discovery": "unknown",}
Now, say you want to display the ship and captain names contained in the dictionary, but you alsowant to provide some additional context. How could you do it?
a) for item in captains.items():
print(f"The [ship] is captained by [captain].")
b) for ship, captain in captains.items():
print(f"The {ship} is captained by {captain}.")
c) for captain, ship in captains.items():
print(f"The {ship} is captained by {captain}.")
d) All are correct

Q20)
You've created a dictionary, added data, checked for the existence of keys, and iterated over it witha for loop. Now you're ready to delete a key from this dictionary:

```
captains = {"Enterprise": "Picard","Voyager": "Janeway",  "Defiant": "Sisko",
    "Discovery": "unknown"}
```

What statement will remove the entry for the key "Discovery"?

a) del captains
b) captains.remove()
c) del captains["Discovery"]
d) captains["Discovery"].pop()

ANSWERSHEET:

Question No.	Correct Option	Question No.	Correct Option
1	c	11	c
2	b	12	c
3	b	13	b
4	d	14	a
5	a	15	d
6	c	16	d
7	c	17	d
8	a	18	c
9	c	19	b
10	a	20	c