

Name – Jaykant Kumar

Batch – DS2405

Internship Program

Flip Robo Technology

Date: 06/05/2024

Project 1

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))
```

Ans: c – 15

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))
```

Ans: b – Filter

Q3. As what datatype are the *args stored, when passed into

Ans: a – Tuple

Q4. set1 = {14, 3, 55}

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

Ans: d – Error

Q5. What keyword is used in Python to raise exceptions?

Ans: a – raise

Q6. Which of the following modules need to be imported to handle date time computations in Python?

Ans: c – datetime

Q7. What will be the output of the following code snippet?

```
print(4**3 + (7 + 5)**(1 + 1))
```

Ans: c – 208

Q8. Which of the following functions converts date to corresponding time in Python?

Ans: b - strftime

Q9. The python tuple is _____ in nature.

Ans: b – immutable

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.

Ans: a – range()

Q11. Amongst which of the following is a function which does not have any name?

Ans: c – Lambda Function

Q12. The module Pickle is used to ____.

Ans: c – Both A and B

Q13. Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

Ans: b – dump() method

Q14. Amongst which of the following is / are the method used to unpickling data from a binary file?

Ans: a – load() method

Q15. A text file contains only textual information consisting of ____.

Ans: d - All of the mentioned above

Q16. Which Python code could replace the ellipsis (...) below to get the following output? (Select all that apply.)

```
captains = {
```

```
"Enterprise": "Picard",  
"Voyager": "Janeway",  
"Defiant": "Sisko",  
}
```

Enterprise Picard,

Voyager Janeway

Defiant Sisko

Ans: d - both a and b

Q17. Which of the following lines of code will create an empty dictionary named captains?

Ans: 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 the existing captains dictionary?

Ans: b - captains["Enterprise"] = "Picard"

captains["Voyager"] = "Janeway"

captains["Defiant"] = "Sisko"

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 also want to provide some additional context. How could you do it?
```

Ans: b - for ship, captain in captains.items():

```
print(f"The {ship} is captained by {captain}.")
```

Q20. You've created a dictionary, added data, checked for the existence of keys, and iterated over it with a 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"?

Ans: `c - del captains["Discovery"]`