

Assignment 1

1. 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**

2. 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**

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

Ans. **A Tuple**

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

Ans **D Error**

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

Ans **A Raise**

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

Ans **C datetime**

7. What will be the output of the following code snippet? print(4**3 + (7 + 5)**(1 + 1))

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Ans **C 208**

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

Ans **A strptime**

9. The python tuple is _____ in nature.

Ans **B immutable**

10. 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()**

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

Ans **C Lambda Function**

12. The module Pickle is used to ____.

Ans **C. Both A and B**

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

Ans **B. dump() method**

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

Ans **B. set() method**

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

Ans **D. All of the mentioned above**

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

```
captains = {
```

```
"Enterprise": "Picard",
```

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

Enterprise Picard,

Voyager Janeway

Defiant Sisko

Ans **C for ship in captains: print(ship, captains)**

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

Ans **C. captains=dict()**

18. 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 **C captains = {**

"Enterprise": "Picard",

"Voyager": "Janeway",

"Defiant": "Sisko",

}

19. 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}.")

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20. 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"]**