

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 :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 : Filter

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

Ans: Tuple

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

Ans: Error

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

Ans:Raise

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

Ans: Datetime

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

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

Ans: 208

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

Ans:Strftime

9) The python tuple is _____ in nature.

Ans: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:range()

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

Ans:Lambda function

12)The module Pickle is used to ____.

Ans: 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: dump() method

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

Ans: dump() mthod

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

Ans: all of above

16)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: both a & b

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

Ans: `captains = {}`

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: `captains["Enterprise"] = "Picard"` `captains["Voyager"] = "Janeway"` `captains["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: `for ship, captain in captains.items(): print(f"The {ship} is captained by {captain}.")`

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: del captains["Discovery"]