

# MCQ – Assignment

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))
```

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

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))`

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

Ans: b) Filter

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

- a) Tuple
- b) List
- c) Dictionary
- d) none

Ans: a) Tuple

4. `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

**Ans: d) Error**

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

- a) raise
- b) try
- c) goto
- d) excep

**Ans: a) raise**

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

- a) timedata
- b) date
- c) datetime
- d) time

**Ans: c) datetime**

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

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

- a) 248
- b) 169
- c) 208
- d) 233

**Ans: c) 208**

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

- a) **strptime**
- b) strftime
- c) both a) and b)
- d) None

**Ans: a) strptime**

9. The python tuple is \_\_\_\_\_ in nature

- a) mutable
- b) **immutable**
- c) unchangeable
- d) none

**Ans: a) 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.

- A. **range()**
- B. set()
- C. dictionary{}
- D. None of the mentioned above

**Ans: A. range()**

11. 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

**Ans: C. Lambda function**

12. 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

**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?

- A. set() method
- B. dump() method**
- C. load() method
- D. None of the mentioned above

**Ans: B. dump() method**

14. 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

**Ans: A. load()**

15. A text file contains only textual information consisting of \_\_\_\_.

- A. Alphabets
- B. Numbers
- C. Special symbols
- D. All of the mentioned above**

**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", "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**

**Ans: d) both a and b**

17. 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 = {}

**Ans: d) 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?**

- 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

**Ans: b) captains["Enterprise"] = "Picard"**  
**captains["Voyager"] = "Janeway"**  
**captains["Defiant"] = "Sisko"**

- 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?**

- 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

**Ans: b) 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"?**

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

**Ans: c) del captains["Discovery"]**