


[Flip Robo Internship] Name : Prashant Pathak (Solution of d1)

{NOTE: Highlight option is correct 

Q 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

Q 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

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

a) Tuple 

b) List

c) Dictionary

d) none

Q -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 ✓

Q -5 What keyword is used in Python to raise exceptions?

a) raise ✓

- b) try
- c) goto
- d) except

Q -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

Q -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

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

a) strptime

b) strftime ✓

- c) both a) and b)
- d) None

Q -9 The python tuple is _____ in nature.

a) mutable

b) immutable ✓

c)unchangeable

d) none

Q -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

Q -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

Q -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

Q -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

Q -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

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

A. Alphabets

B. Numbers

C. Special symbols

D. All of the mentioned above ✓

Q -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 ✓

Q -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 = { } ✓

Q -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

Q -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

Q -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()