```
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))

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

Answer: c) The final output of the code snippet is **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

ANSWER: d) Tuple
```

3.

As what datatype are the *args stored, when passed into a) Tuple b) List c) Dictionary d) none

ANSWER: b) **List** datatype are the *args stored, when passed into

```
ASSIGNMENT – 1
```

```
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
```

ANSWER : d) Error . '+' operator can not be used to combine sets

5.

What keyword is used in Python to raise exceptions?

```
a) raise b) try c) goto d) except
```

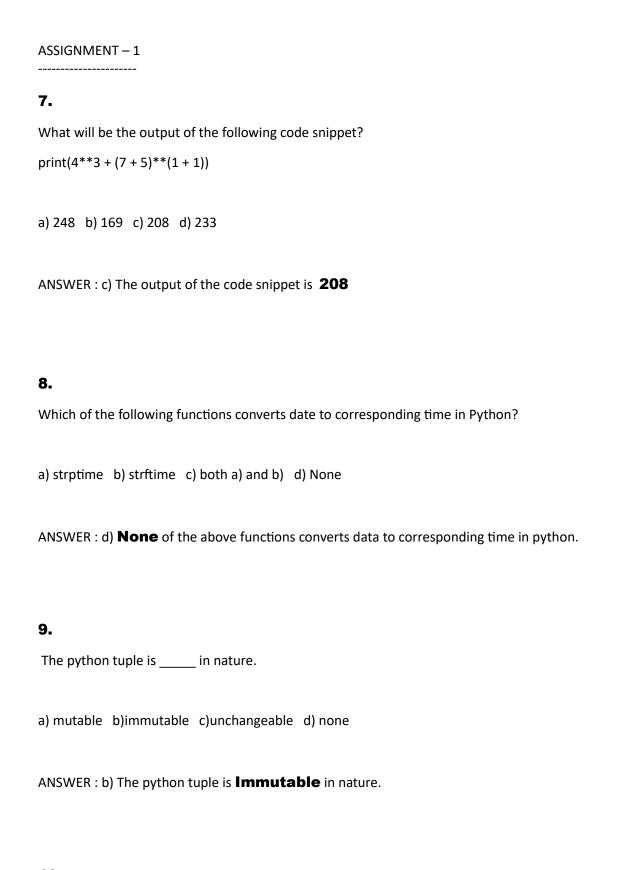
ANSWER: a) **Raise** keyword is used in python to raise exceptions.

6.

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

a) timedate b) date c) datetime d) time

ANSWER: c) **Datetime** module needs to be imported to handle date time computations in Python.



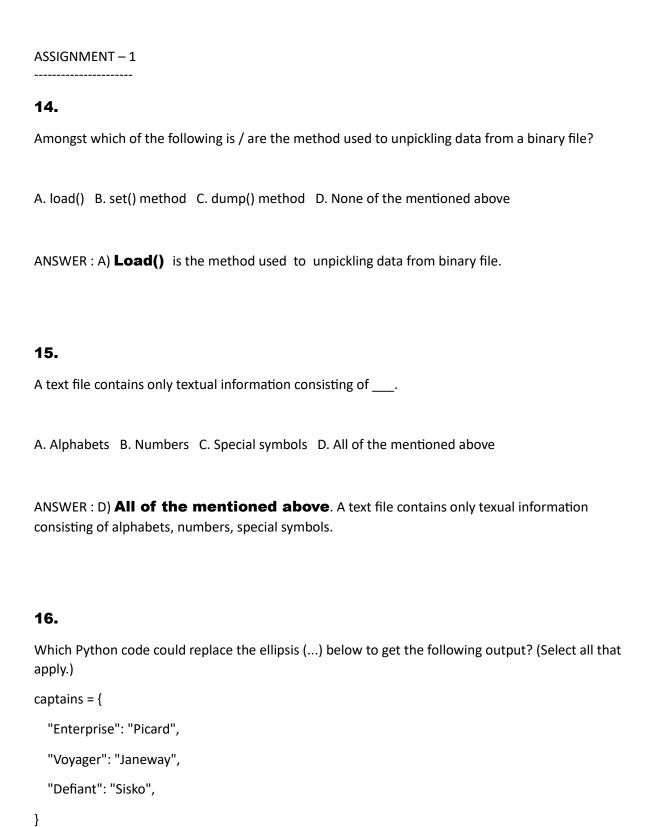
10.

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

ANSWER: A) The Range is a built-in function that returns a range object that consists series of integer numbers, which we can iterate using a for loop.
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
ANSWER : C) Lambda function does not have any name.
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
ANSWER: C) Both A and B . The module Pickle is used to serialize python object structure and de-serialize too.
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
ANSWER: B) Dump() method is the method of convert Python objects for writing data in a binary file.

ASSIGNMENT – 1



a) for ship, captain in captains.items():

Enterprise Picard,

Voyager Janeway

Defiant Sisko

ASSIGNMENT - 1

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

```
ANSWER: a) for ship, captain in captains.items(): print(ship, captain)
```

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 = {}
```

ANSWER: 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"}

```
ASSIGNMENT - 1
```

```
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
ANSWER: b) 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?

```
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
ANSWER: d) All are correct.
```

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()
```