## Assignment-I

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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?
<ul><li>a) raise</li><li>b) try</li><li>c) goto</li><li>d) except</li></ul>
Ans. a) raise
6) Which of the following modules need to be imported to handle date time computations in Python
<ul><li>a) timedate</li><li>b) date</li><li>c) datetime</li><li>d) time</li></ul>
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?
<ul><li>a) strptime</li><li>b) strftime</li><li>c) both</li><li>d) and b) d) None</li></ul>
Ans. b) strftime
9) The python tuple is in nature.
a) mutable

Ans. b) immutable

d) none

b) immutablec) unchangeable

	e is a built-in function that returns a range object that consists series of integer numbers, we can iterate using a for loop.
b) c)	range() set() dictionary{} None of the mentioned above
Ans. a)	range()
<b>11)</b> An	nongst which of the following is a function which does not have any name?
b) c)	Del function Show function Lambda function None of the mentioned above
Ans. c)	Lambda function
12) The	e module Pickle is used to
b) c)	Serializing Python object structure  De-serializing Python object structure  Both A and B  None of the mentioned above
Ans. a)	Both A and B
•	nongst which of the following is / are the method of convert Python objects for writing data in a
13) Am binary a) b) c)	nongst which of the following is / are the method of convert Python objects for writing data in a
13) Am binary a) b) c) d)	set() method dump() method load() method
a) b) c) d) Ans. b)	set() method dump() method load() method None of the mentioned above
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## C. Special symbols

## D. All of the mentioned above

## Ans. D) All of the mentioned above

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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. a) captions
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
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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"
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
```

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:

Ans. b) for ship, captain in captains. Items():

print (f"The {ship} is captained by {captain}.")

```
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 captions["Discovery"]