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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))
sol :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))
sol: Filter
3) As what datatype are the *args stored, when passed into
Sol: Tuple
4) set1 = {14, 3, 55}
  set2 = {82, 49, 62}
  set3={99,22,17}
  print(len(set1 + set2 + set3))
sol: Error
5) What keyword is used in Python to raise exceptions?
sol: raise
6) Which of the following modules need to be imported to handle date time computations in Python?
sol: datetime
7) What will be the output of the following code snippet?
   print(4**3 + (7 + 5)**(1 + 1))
sol: 208
8) Which of the following functions converts date to corresponding time in Python?
sol: strptime
9) The python tuple is _____ in nature.
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sol: unchangeable
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.
sol: range()
11) Amongst which of the following is a function which does not have any name?
Sol: Lambda function
12) The module Pickle is used to . .
Sol: Both A and B (serializing and de-serializing a Python object structure)
13) Amongst which of the following is / are the method of convert Python objects for writing data in a
binary file?
Sol: dump() method
14) Amongst which of the following is / are the method used to unpickling data from a binary file?
Sol: load()
15) A text file contains only textual information consisting of ____.
Sol: . Alphabets , Numbers & Special symbols
    ( 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
Sol: a) for ship, captain in captains.items():
      print(ship, captain)
    b) for ship in captains:
      print(ship, captains[ship])
    both a and b
```

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

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Sol: 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?
Sol: 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?
Sol: 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"?

Sol: del captains["Discovery"]