***Flip robo technologies***

**1)** Def func(a, b):

return b if a == 0 else func(b % a, a)

print (func(30, 75))

***----🡪 Answer*** = **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))

**------🡪**  **Answe*r = Filter***

**3)** As what datatype are the \*args stored, when passed into

**------🡪**  **Answe*r = Tuple***

**4)** set1 = {14, 3, 55}

set2 = {82, 49, 62}

set3={99,22,17}

print(len(set1 + set2 + set3))

**------🡪**  **Answe*r = Error***

**5)** What keyword is used in Python to raise exceptions?

**------🡪**  **Answe*r = Raise***

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

**------🡪**  **Answe*r = Datetime***

1. What will be the output of the following code snippet? print(4\*\*3 + (7 + 5)\*\*(1 + 1))

**------🡪**  **Answe*r = 208***

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

**------🡪**  **Answe*r = Strptime***

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

**------🡪**  **Answe*r =* Immutable**

1. 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

**------🡪**  **Answe*r = Range***

1. Amongst which of the following is a function which does not have any name?

**------🡪**  **Answe*r =* Lambda function**

1. The module Pickle is used to \_\_\_.

**------🡪**  **Answe*r =***  **Serializing Python object structure**

1. Amongst which of the following is / are the method of convert Python objects for writing data in a binary file?

**------🡪**  **Answe*r =***  **dump () method**

1. Amongst which of the following is / are the method used to unpickling data from a binary file?

**------🡪**  **Answe*r* = load method**

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

**------🡪**  **Answe*r* =** A. Alphabets

B. Numbers

C. Special symbols

1. 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

**------🡪**  **Answe*r* = a)** for ship, captain in captains .items():

print(ship, captain)

**b)** for ship in captains:

print(ship, captains[ship])

1. Which of the following lines of code will create an empty dictionary named captains?

**------🡪**  **Answe*r* = captains = {}**

1. 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?

**------🡪**  **Answe*r =*** captains{"Enterprise" = "Picard"}

captains{"Voyager" = "Janeway"}

captains{"Defiant" = "Sisko"}

1. 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?

**------🡪**  **Answe*r*** = for ship, captain in captains.items():

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

1. 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"

**------🡪**  **Answe*r*** = del captains["Discovery"] .