Python

1. Guess output of each slice:

   s='Python is Object Oriented'

   1. s[-1]   2. s[::-1]   3. s[:-1]   4. s[1:1]   5. s[4:10]

2. What error do you see for following statements:

   s= ''
   print(s[1])

3. Do you get any error for the following code, if not give the output:

   S='Gaurav'
   print(s[1])

4. Find output of the following:

   a) s='a b cd'
      print(len(s))
      print(s[::2])
      print(len(s[::2]))

   b) s='a#b#c#d#'
      print(s.split())
      print(s.split('#'))
      l=s.split('#')
      s='$'.join(l)
      print(s)

   c) S='Gaurav'
      S=S[::-2][::-2]
      print(S)

   d) print(1>2)

   e) print(4%2, 5%2, 2%5, sep=', ')

   f) s='abcba'
      s.upper()
      print(s)
      print(s.count('A'), end = ' ,')
      print(s.count('A', 2,4) , end = ' ,')
      print(s.count('a', 2,4) , end = ' ,')

5. Find Output of Following Code:

   X = 2
   X *= 3
   X = X%4
   Y = - X

6. Write a program to input temperature in Celcius(C) and print it in Fahrenheit (F)

    F = (9/5)C + 32

    ex: if input is C=2, output should be F=35.6

7. Wap to print quotient and remainder of 2 numbers

8. What does this symbol denote:

    []

9. WAP to print all methods(functions/operations) available in a string (Hint : dir())

10. Using the above method, get all methods available for **str (strings)** and join it into a space separated string.
    Once done, check if rstrip method is available in the **str** class.
    (Hint : Use the find, join and dir methods)

11. View the help of any of the methods available above (Use the help builtin)

12. WAP to **store** the following patterns in a **string variable** and then print them:

```
★ ★ ★ ★ ★          ★           ★              _____
    ★              ★   ★   ★   ★            |        |
    ★              ★       ★       ★          o       |
    ★               /|\             |
    ★              ★               ★          /|\     |
                   ★               ★          / \     |
                                                      |
                                             _____  |
                                                      |
```

13. WAP to input a string and replace all space with new lines (\n) and print again.
14. WAP to swap 2 strings (Take both strings as input and print after swapping)
15. WAP to input Complete name and split it into first and last name and print it.
    also print after reversing each.
    Ex: if complete name is 'ab cd'
        then print 'dc ba'
16. Check your version of python interpreter without opening the interpreter (Which command needs to be used on the command line).