

- 1. WAP to input 10 numbers repeatedly (using range based for loop) and store them in a list
- **2.** Update the above program to print the sum of numbers.
- **3.** WAP to input numbers from user till the user wishes to exit and print total sum at the end. Your Programs output should look something like this:

```
Enter a Number: 4
Enter More (y/n): y
Enter a Number: 20
Enter More (y/n): y
Enter a Number: -5
Enter More (y/n): n
Total Sum = 19
```

- **4.** WAP to print total number of spaces in a string (Use for loop to iterate over the string).
- 5. WAP to print total number of vowels in a string (Vowels are 'a', 'e', 'I', 'o', 'u').
- 6. WAP to input a string and count occurrence of each vowel in a string.

```
Ex: if user enters:

"Beautiful Day"

Output should Be:

a:2

e:1

I:1

o:0

u:2
```

[Hint: Use a list of a dictionary (preferably dictionary)]

- **7.** Update the previous program to print the count of not just vowels, but every symbol present in the string separately (including spaces, punctuators...).
- **8.** Find the output of the following code snippets.

```
for i1 in range (1,6):
                                for il in range (1,6):
    for i2 in range(5):
                                    for i2 in range(i1 + 1):
                                        print('*'. end = '')
       print('*'. end = '')
                                    print()
   print()
                                for i1 in range (1,6):
for i1 in range (1,6):
                                    for i2 in range(i1):
    print('*'*i1)
                                        print(i1, end = '')
                                    print()
for il in range (1,6):
    print(str(i1)*i1)
```

9. WAP to input a string and replace all vowels with '_'.[Hint: Convert string to list. Remember!! Strings are immutable. Replace in the list and then join]

10. Predict the output of following code

- **11.** WAP to generate a list of 10 random numbers and print it on screen.
- **12.** Create a list **words**, which contains any 10 words of your choice. Each time the program runs, print one random word from the list.
- 13. Find output of:

```
for num in range(10):
    print("Num : ", num)
    if num % 4 == 0:
        break
print("Loop Ends")

import sys
for num in range(10):
    print("Num : ", num)
    if num % 4 == 0:
        sys.exit()
print("Loop Ends")
```