# Python

1. WAP to input a string and print individual characters in the string using for loop.
2. WAP to input a string and print the ASCII value of each character in the string.
3. Write a function that takes a list of numbers from user as argument and returns the sum of only odd numbers (Use only for loop. No need to use if statement).
4. WAP to input a list of numbers and store in a tuple. Now input another number and print the index of this number in the tuple. [Use index function]
5. Create a list of 10 random numbers and then print the list, sum of all numbers and average. Use a for loop. Also print elements at only even indexes in the list.
6. WAP to input 10 numbers repeatedly (using range based for loop) and store them in a list. Print the list and sum of numbers in the list.
7. WAP to input a number and print its table. Ex: if user enters the number as 7, output should be

```
7 x 1 = 7
7 x 2 = 14
7 x 3 = 21
7 x 4 = 28
7 x 5 = 35
7 x 6 = 42
7 x 7 = 49
7 x 8 = 56
7 x 9 = 63
7 x 10 = 70
```

8. WAP to print total number of spaces in a string (Use for loop to iterate over the string. Don't use count function).
9. WAP to input a string and count number of vowels in the string. [Note: it should work for both capital and small alphabets]
10. 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]

11. Find output:

```
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")
```

**12.** Find the output of the following code snippets.

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

```
for i1 in range(1,6):
    for i2 in range(i1):
        print(i1, end = '')
    print()
```

```
for i1 in range(1,6):
    print(str(i1)*i1)
```

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