<u>Assignment Sheet - 0</u>

1. Write a Python program to print all even numbers from a given numbers list in the same order and stop the printing if any numbers that come after 237 in the sequence.

Sample numbers list:

```
numbers = [386, 462, 47, 418, 907, 344, 236, 375, 823, 566, 597, 978, 328, 615, 953, 345, 399, 162, 758, 219, 918, 237, 412, 566, 826, 248, 866, 950, 626, 949, 687, 217, 815, 67, 104, 58, 512, 24, 892, 894, 767, 553, 81, 379, 843, 831, 445, 742, 717, 958,743, 527]
```

2. Write a Python program to print out a set containing all the colours from color_list_1 which are not present in color_list_2.

- 3. WAP to find if the given input string is Pangram or not
- 4. Write a Python program that accepts an integer (n) and computes the value of n+nn+nnn.

```
Sample value of n is 5 Expected Result: 615
```

5. Write a python program to take input from console in following fashion 23 54 12#98 3 17

```
and generate the corresponding two list having integers inside (not string) x = [23, 54, 12] y = [98, 3, 17]
```

6. Write a program that accepts a comma separated sequence of words as input and prints the words in a comma-separated sequence after sorting them alphabetically. Suppose the following input is supplied to the program:

```
without,hello,bag,world
Then, the output should be:
  bag,hello,without,world
```

7. Write a Python function to find the name of person obtained highest marks in exam from given dictionary

8. Write a program that accepts a sentence and calculate the number of letters and digits.

```
Suppose the following input is supplied to the program:
hello world! 123
Then, the output should be:
LETTERS 10
DIGITS 3
```

9. Write a python function which creates a new dictionary of students from a given Dataset of various subject to a specific subject or topic only.

```
Example Data:
```

- 10. Define a class with a generator which can iterate the numbers, which are divisible by 7, between a given range 0 and n.
- 11. A robot moves in a plane starting from the original point (0,0). The robot can move toward UP, DOWN, LEFT and RIGHT with a given steps. The trace of robot movement is shown as the following:

```
UP 5
DOWN 3
LEFT 3
RIGHT 2
```

The numbers after the direction are steps. Please write a program to compute the distance from current position after a sequence of movement and original point. If the distance is a float, then just print the nearest integer.

```
Example:
```

```
If the following tuples are given as input to the program:

UP 5

DOWN 3

LEFT 3

RIGHT 2

Then, the output of the program should be:
```

2