**ASSIGNMENT 3**

1.Write a function named sort\_odd\_even() that will sort a list of numbers with the odd numbers coming first and the even numbers coming second. You can use the list.sort function.

2. By using list comprehension, write a program to print the list after removing the value 24 in [12,24,35,24,88,120,155].

3. Use a list comprehension to square each odd number in a list. The list is input by a sequence of comma-separated numbers.

4.Using list comprehension, return the number of even integers in the given array.

5.Use filter() to eliminate all words that are shorter than 4 letters from a list of words.

6.Write a list comprehension statement to convert a list of Fahrenheit temperatures to Celsius

7.Use map and a lambda function to convert a list of Fahrenheit temperatures to a list of Celsius temperatures

8.Input two lists and convert the two list to dictionary.

9. Make a two-player Rock-Paper-Scissors game. One of the players is the computer. 10 chances. Print out the winner and points earned by both players.

Remember the rules:

Rock beats scissors Scissors beats paper Paper beats rock

10. Write a program which accepts a sequence of comma-separated numbers from console and generate a list and a tuple which contains every number.

Suppose the following input is supplied to the program:

34,67,55,33,12,98

Then, the output should be:

['34', '67', '55', '33', '12', '98']

('34', '67', '55', '33', '12', '98')

11. 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

12. Write a program which accepts a sequence of comma separated 4 digit binary numbers as its input and then check whether they are divisible by 5 or not. The numbers that are divisible by 5 are to be printed in a comma separated sequence.

Example:

0100,0011,1010,1001

Then the output should be:

1010