Python

1. WAP to input a number and check whether even or odd without using if else [Hint: Notice the title of this assignment]
2. Write a menu driven program
3. Use the range method and create a tuple containing the following values:
   (20, 15, 10, 5)
4. Write code to reverse the above generated tuple
5. WAP to create a dictionary of numbers mapped to their negative value for numbers from 1-5. The dictionary should contain something like this:
   {1:-1,2:-2,3:-3....}
6. WAP to join a list and a tuple:
   L = [1,3,5,7] and the tuple T = (8,6,4,2)

   Into a List SL. SL should have all elements in descending order.

7. WAP to convert string to list of characters.
8. What is the return type of:
   a. <String>.**split**()   **b.** <Sequence Type>.**sort**()
   c. <string>.**toupper**()   **d.** <value> **in** <Sequence Type>
9. Find output of:

```
l = list(range(3,-4,1))
print(len(l))
```

```
l = list(range(2,10,3))
print(len(l), max(l), min(l))
```

```
l = list(range(3,-4,-1))
print(len(l), sum(l))
```

```
l = [0, 90, 7, -10]
l.sort(reverse = True)
print(l[0], l[len(l) - 1])
```

10. Create a tuple **T** with numbers from **-1000** to **0** with **step size** of **5.**
11. Reverse the above generated tuple and store in another variable **RT.**
12. Input an identifier from user, and check if it is a valid identifier as per Python Syntax. [Check it should not start with number, should contain only alphabets and numbers and '_'. Should not be a keyword]