## PRACTICAL NO 2

a) Write a function that takes a character (i.e. a string of length 1) and returns True if it is a vowel, False otherwise.

```
def VovelConsonant(UserCharacter):
    Vovels = ['a','e','i','o','u']
    if UserCharacter.lower() in Vovels :
        return True
    else :
        return False
Iterator = 0
while Iterator ==0:
    UserCharacter = input("Enter the Character : ")
    if len(UserCharacter) == 1 :
        if UserCharacter.isalpha() :
            if VovelConsonant(UserCharacter) :
                print(f"True : your entered character {UserCharacter}
                is a vovel")
                Iterator = 1
                print(f"False : your entered character
                {UserCharacter} is a consonant")
                Iterator = 1
        else :
            print("Please enter character only!")
        print("Please enter character only!")
```

## Output:

```
Enter the Character : 12
Please enter character only!
Enter the Character : aa
Please enter character only!
Enter the Character : 1
Please enter character only!
Enter the Character : a
True : your entered character a is a vovel
```

Enter Element [4] : 40
Enter Element [5] : 60

Length of the Entered List is 5

Do you want to continue ? [1|Yes 2|No] : 2

4 | 222

5 | 22222

2 | 🛮 🗗

9 | 22222222 7 | 2222222

S.Y.IT: Python Programming ROLL NO:56 c) Define a procedure histogram() that takes a list of integers and prints a histogram to the screen. For example, histogram([4, 9, 7, 2, 5]) should print the following:  $\mathscr{U}\mathscr{U}$ Code: def histogram(): print() print("Histogram") for x in Li: print(f" {x} | {'\overline{x}}") Li=[] Size=int(input("Enter the Number of columns in histograms : ")) for x in range(Size) : ColumnsValue = int(input(f"Enter the value of column  $[{x+1}]$  : Li.append(ColumnsValue) histogram() Output: Enter the Number of columns in histograms : 5 Enter the value of column [1]: 4 Enter the value of column [2] : 9 Enter the value of column [3] : 7 Enter the value of column [4] : 2 Enter the value of column [5] : 5 Histogram ::