Assignment 4

Q-1 Write a Python program to accept a string from user and find out the length of the given string.

Code and Output:

```
a=input("enter a string =")
b=len(a)
print(b)
```

```
enter a string =pranjal
7
```

Q-2 Accept two words as input and print the two words after adding a space between them.

Code and Output:

```
a=input("enter a string =")
b=input("enter a string =")
c=a+" "+b
print(c)
```

```
enter a string =pranjal
enter a string =tiwari
pranjal tiwari
```

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Q-3 To check a substring is present in a given string or not.

Code and Output:

```python
a=input("enter a string =")
b=input("enter a substring =")
if a.find(b):
    print(b,"is  present in",a)
else:
    print(b,"is not present in",a)
```

```
enter a string =abc
enter a substring =b
b is  present in abc
```

Q-4 Accept a string and display a string upto a particular character

Code and Output:

```python
a=input("enter a string =")
b=int(input("enter an index number ="))
c=a[:b]
print(c)
```

```
enter a string =learning python
enter an index number =12
learning pyt
```

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Q-5 Accept a string and count the total number of vowels in the existing string

Code and Output:

```python
a=input("enter a string =")
count=0
for i in a:
    if(i=='a' or i=='e' or i=='i' or i=='o' or i=='u' or i=='A' or i=='E' or i=='I' or i=='O' or i=='U' ):
        count+=1
print("total no. of vowels in ",a,"are ",count)
```

```
enter a string =pranjal tiwari
total no. of vowels in  pranjal tiwari are  5
```

Q-6 Accept a string as input, convert it to lower case, sort the string in alphabetical order, and print the sorted string to the console. You can assume that the string will only contain letters. for example: Bharatanatyam->aaaaabhmnrtty.

Code and Output:

```python
a=input("enter a string =")
b=a.lower()
print(''.join(sorted(b)))
```

```
enter a string =PROGRAMMING
aggimmnoprr
```

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Q-7 . Accept a phone number as input. A valid phone number should satisfy the following constraints. (1) The number should start with one of these digits: 6, 7, 8, 9 (2) The number should be exactly 10 digits long. (3) No digit should appear more than 7 times in the number. Print the string valid if the phone number is valid. If not, print the string invalid.

Code and Output:

```python
a=input("enter a phone number=")
i=[6,7,8,9]
if a[0] in a:
    if(len(a)==10):
        for j in a:
            if(a.count(j)>7):
                print("digit can not be repeated more than 7 times")
                break
        else:
            print("it is a valid phone number")
    else:
        print("length  of moble number should  be Equal to 10")
else:
    print("First digit should consist 6,7,8 or 9")
```

```
enter a phone number=7982319695
it is a valid phone number
```

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Q-8 Write a Python program to check if a string is palindrome or not.

Code and Output:

```python
a=input("enter a string =")
b=a[::-1]
if(a==b):
    print(a," is  a palindrome")
else:

    print(a," is not a palindrome")
```

```
enter a string =1234321
1234321  is  a palindrome
```

Q-9 Write a Python program to reverse words in a given String in Python.

Code and Output:

```python
a=input("enter a string =")
b=a.split()[::-1]
b=" ".join(b)

print(b)
```

```
enter a string =learning python
python learning
```

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Q-10 Write a Python program to remove a particular character from string in Python.

Code and Output:

```python
a=input("enter a string =")
b=input("enter a character =")
c=a.replace(b,"")
print(c)
```

```
enter a string =jupyter
enter a character =j
upyter
```

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