PYTHON STRINGS
MODULE - 28

DISTANCE LEARNING PROGRAMME
THROUGH E-MODULE BY
ATOMIC ENERGY EDUCATION SOCIETY
MUMBAI

Contents of Module 28

In this module learning outcomes are:

1. Python Program to Count the Number of Vowels in a String

2. Python Program to Calculate the Number of Words and the Number of Characters Present in a String

3. Python Program to Calculate the Number of Digits, Alphabets and special characters in a String

1. Python Program to Count the Number of Vowels in a String

Program/Source Code.

```python
# Program to Count the Number of Vowels in a String
string=input("Enter string:")
vowels=0
for i in string:
    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'):
        vowels=vowels+1
print("Number of vowels are:")
print(vowels)
```

Python Program to Count the Number of Vowels in a String

Runtime Test Cases

Case 1:

Enter string:Hello world

Number of vowels are:

3

Case 2:

Enter string:WELCOME

Number of vowels are:

3

2. Python Program to Calculate the Number of Words and the Number of Characters Present in a String

Program/Source Code

```python
'''Program to Calculate the Number of Words and the Number of Characters Present in a String'''
string=input("Enter string:")
char=0
word=1
for i in string:
        char=char+1
        if(i==' '):
                word=word+1
print("Number of words in the string:")
print(word)
print("Number of characters in the string:")
print(char)
```

Python Program to Calculate the Number of Words and the Number of Characters Present in a String

Runtime Test Cases

Case 1:

Enter string:Hello world

Number of words in the string:

2

Number of characters in the string:

11

Case 2:

Enter string:I love python

Number of words in the string:

3

Number of characters in the string:

13

3. Python Program to Calculate the Number of Digits, Alphabets and special characters in a String

Program/Source Code

```python
'''Program to Calculate the Number of Digits, Alphabets and special characters in a String '''
string=input("Enter string:")
count1=0
count2=0
count3=0
for i in string:
        if(i.isdigit()):
                count1=count1+1
        elif(i.isalpha()):
                count2=count2+1
        else:
                count3=count3+1
print("The number of digits is:")
print(count1)
print("The number of alphabets is:")
print(count2)
print("The number of special characters is:")
print(count3)
```

Python Program to Calculate the Number of Digits, Alphabets and special characters in a String

Runtime Test Cases

Case 1:

Enter string:Hello123!@#

The number of digits is:

3

The number of alphabets is:

5

The number of special characters is

3

Case 2:

Enter string:Year2021#*%$

The number of digits is:

4

The number of alphabets is:

4

The number of special characters is

THANK YOU

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