

# PYTHON STRINGS

## MODULE - 29

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

# **Contents of Module 29**

In this module learning outcomes are:

1. Python Program to Check if a String is a Palindrome or Not.
2. Python Program to Calculate the Number of Upper Case Letters and Lower Case Letters in a String.
3. Python Program to Convert the entered string into upper case as well as lower case.

## 1. Python Program to Check if a String is a Palindrome or Not

### Program/Source Code

```
#Program to Check if a String is a Palindrome or Not
```

```
string=input("Enter string:")
```

```
if(string==string[::-1]):
```

```
    print("The string is a palindrome")
```

```
else:
```

```
    print("The string isn't a palindrome")
```

## **Python Program to Check if a String is a Palindrome or Not**

### **Runtime Test Cases**

Case 1:

Enter string: malayalam

The string is a palindrome

Case 2:

Enter string: hello

The string isn't a palindrome

## 2. Python Program to Calculate the Number of Upper Case Letters and Lower Case Letters in a String.

### Program/Source Code

```
'''Program to Calculate the Number of Upper Case Letters and Lower Case Letters in a String'''  
string=input("Enter string:")  
count1=0  
count2=0  
for i in string:  
    if(i.islower()):  
        count1=count1+1  
    elif(i.isupper()):  
        count2=count2+1  
print("The number of lowercase characters is:")  
print(count1)  
print("The number of uppercase characters is:")  
print(count2)
```

## **Python Program to Calculate the Number of Upper Case Letters and Lower Case Letters in a String.**

### **Runtime Test Cases**

Case 1:

Enter string:HeLlO

The number of lowercase characters is:

2

The number of uppercase characters is:

3

Case 2:

Enter string:WelCome

The number of lowercase characters is:

5

The number of uppercase characters is:

2

### 3. Python Program to Convert the entered string into upper case as well as lower case.

#### Program/Source Code

```
#Program to convert the entered string into uppercase as well as lowercase
string=input("Enter string:")
length=len(string)
print("Converting the string into uppercase:")
for i in string:
    i=i.upper()
    print(i,end="")
print("\nConverting the string into lowercase:")
for i in string:
    i=i.lower()
    print(i,end="")
```

## **Python Program to Convert the entered string in upper case as well as lower case.**

### **Runtime Test Cases**

Case 1:

Enter string: Hello! How Are You?

Converting the string into uppercase:

HELLO! HOW ARE YOU?

Converting the string into lowercase:

hello! how are you?

Case 2:

Enter string: String Program

Converting the string into uppercase:

STRING PROGRAM

Converting the string into lowercase:

String program



# **THANK YOU**

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