

PYTHON PROGRAMMING

PROGRAM:-

- METHOD 1:-PALINDROME

```
string1=list(input("enter list elements"))  
print("string1",string1)  
string2=string1.copy()  
print("copied string2",string2)  
string1.reverse()  
print("reversed: ",string1)  
if(string1==string2):  
    print("PALINDROME")  
else:  
    print("not PALINDROME")
```

OUTPUT:-

```
enter list elementsMALAYALAM  
string1 ['M', 'A', 'L', 'A', 'Y', 'A', 'L', 'A', 'M']  
copied string2 ['M', 'A', 'L', 'A', 'Y', 'A', 'L', 'A', 'M']  
reversed: ['M', 'A', 'L', 'A', 'Y', 'A', 'L', 'A', 'M']  
PALINDROME
```

NOT A PALINDROME:-

```
enter list elementsGURU  
string1 ['G', 'U', 'R', 'U']  
copied string2 ['G', 'U', 'R', 'U']  
reversed: ['U', 'R', 'U', 'G']  
not PALINDROME
```

METHOD 2:-

- **PALINDROME USING FOR LOOP:-**

```
str=input("Enter any number/word :")
```

```
i=0
```

```
for i in range(len(str)):
```

```
    if str[i]!=str[-1-i]:
```

```
        print('It is not a palindrome')
```

```
        break
```

```
else:
```

```
    print('It is a palindrome')
```

OUTPUT:-

```
Enter any number/word :GURU
```

```
It is not a palindrome
```

```
Enter any number/word :454
```

```
It is a palindrome
```

PYTHON PROGRAMMING

- **LENGTH OF A STRING :-**

PROGRAM:-

```
str=input("Enter the string to find length : ")  
sum = 0  
for i in str:  
    sum = sum + 1  
print("Length of string : ",end = "")  
print(sum)
```

OUTPUT:-

```
Enter the string to find length : MS DHONI  
Length of string : 8
```

- **REVERSING A STRING:-**

PROGRAM:-

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

```
new=""
```

```
print("The given string is")
```

```
for i in str:
```

```
    print(i,end="")
```

```
print("")
```

```
print("The reversed string is")
```

```
for i in str:
```

```
    new=i+new
```

```
print(new,end="")
```

OUTPUT:-

Enter the string : KAWASAKI

The given string is

KAWASAKI

The reversed string is

IKASAWAK

PYTHON PROGRAMMING

- write a program that accepts a string from the user and display the string after replacing the vowel character with @

Test Data :

ENGINEERING ----> @NG@N@@R@NG

COLLEGE -----> C@LL@G@

PROGRAM:-

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

```
vowel=['a','e','i','o','u','A','E','I','O','U']
```

```
for i in word:
```

```
    if i in vowel:
```

```
        i="@"
```

```
        print(i,end="")
```

```
    else:
```

```
        print(i,end="")
```

OUTPUT:-

Enter the string : COLLEGE

C@LL@G@

Enter the string : ENGINEERING

@NG@N@@R@NG