PYTHON PROGRAMMING

PROGRAM:-

- **METHOD 1:-PALINDROME**

```python
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

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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