Ex. No : 6(a) **CHECK PALINDROME OR NOT**
Date : 01-02-2023

Algorithm:

Step 1 : Start

Step 2 : read s

Step 3 : call the function palindrome(s)

3.1 : check if s == s[::-1]

3.1.1 : if yes, then display 'palindrome'

3.1.2 : if no, then display 'not palindrome'

Step 4 : Stop

Program:

```
# program to check string is palindrome or not
def check_palindrome(s):
    if s==s[::-1]:
        print(s,'is palindrome')
    else:
        print(s,'is not palindrome')
str1=input('Enter a string : ')
check_palindrome(str1)
```

Output:

```
Enter a string : son
son is not palindrome
```

Ex. No : 6(b) **REVERSE THE STRING**
Date : 01-02-2023

Algorithm:

Step 1 : Start

Step 2 : read s

Step 3 : Assign rev=call the function reverse(str1)

3.1 : return s[::-1]

Step 4 : display rev

Step 5 : Stop

Program:

```
# program to reverse the string
def reverse(s):
    return s[::-1]
str1=input('Enter a string : ')
rev=reverse(str1)
print('The reversed string is',rev)
```

Output:

```
Enter a string : alex
The reversed string is xela
```

Ex. No : 6(c) **LENGTH OF STRING**
Date : 01-02-2023

Algorithm:

Step 1 : Start

Step 2 : read s

Step 3 : call the function str_len(s)

3.1 : assign l=0

3.2 : for i in s and go to step 3.2.1

3.2.1 : Update l+=1 and go to step 3.2

3.3 : display l

Step 4 : Stop

Program:

```
# program to find the length of the string
def str_len(s):
    l=0
    for i in s:
        l+=1
    return l
str1=input('Enter a string : ')
print(str_len(str1))
```

Output:

```
Enter a string : pandian
7
```

Ex. No : 6(d) **REPLACE THE VOWEL BY @**
Date : 01-02-2023

Algorithm:

Step 1 : Start

Step 2 : read s

Step 3 : call the function replace(s)

3.1 : Assign a=’’

3.2 : for i in s and go to step 3.2.1

3.2.1 : check if i in ['a','e','i','o','u','A','E','I','O','U']

3.2.1 : if yes then update a+=’@’

3.2.2 : if no then update a+=i

3.3 : display a

Step 4 : Stop

Program:

```
# replacing the vowel by @
def replace(s):
      a=’’
      for i in s:
            if i in ['a','e','i','o','u','A','E','I','O','U']:
                  a+=’@’
            else:
                  a+=i
      return a
str1=input('Enter a string : ')
print(replace(str1))
```

Output:

```
Enter a string : alex
@l@x
```