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
```

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
```

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 : ')
str_len(str1)
```

Output:

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

Program:

```python
# replacing the vowel by @

def replace(s):
    l=[i for i in s]
    a=0
    for j in l:
        if j in ['a','e','i','o','u','A','E','I','O','U']:
            l[a]='@'
            a+=1
        else:
            a+=1
    s2=''
    for k in l:
        s2+=k
    return s2
str1=input('Enter a string : ')
print(replace(str1))
```

Output:

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