```
#1. Python program to access each element of a string in forward and reverse
orders using while loop.

string = input('Please enter a string')
count = len(string)
r_s = ""
while(count >0):
    r_s += string[count - 1]
    count -= 1
print("Reverse string: ",r_s)

num = 0
count = (len(string))
f_s = ""
while(num < count):
    f_s += string[num]
    num += 1
print("Forward string: ",f_s)</pre>
```

Please enter a stringnavrachana

Reverse string: anahcarvan

Forward string: navrachana

```
#2. Python program to access the characters of a string using for loop.

string = input('Please enter a string')
f_s=""
i=0
for i in range(0,len(string)):
    f_s += string[i]
    i += 1

print(f_s)
```

Please enter a stringnavrachana

navrachana

```
#3. Python program to check if a string is palindrome or not.
string = input('Please enter a string: ')
if string == string[::-1]:
    print('The entered string is a palindrome string.')
else:
    print('The entered string is not a palindrome string.')
```

Please enter a string: mom

The entered string is a palindrome string.

```
#4. Python Program to Count the Number of Vowels in a String.

string = input('Please enter a string: ')
count = 0
for i in string:
    if (i == 'a' or i == 'e' or i == 'i' or i == 'o' or i == 'u'):
        count += 1
    else:
        count += 0
if count > 0:
    print('There are', count, 'vowels in the string.')
else:
    print('There are no vowels in the string.')
```

Please enter a string: navrachana

There are 4 vowels in the string.

```
string = input("Please enter a string:")
count = 0
for i in string:
        count = count + 1
print("Length of the string is: ",count)
```

Please enter a string:navrachana

Length of the string is: 10

```
string = input("Please enter a string:")
char = 0
word = 1
for i in string:
    char = char + 1
    if (i==' '):
        word = word+1
print("Number of words in the string: ",word)
print("Number of characters in the string: ",char)
```

Please enter a string: I study at Navrachana University

Number of words in the string: 5

Number of characters in the string: 32

```
#7. Reverse words in a given String in Python.
sentence = input('Please enter a string: ')
```

```
words = sentence.split(' ')
reverse_sentence = ' '.join(reversed(words))
print(reverse_sentence)
```

Please enter a string: I study at navrachana university university navrachana at study I

```
#8. Python program to check whether the string is Symmetrical or Palindrome.

def check_palindrome(my_str):
   mid_val = (len(my_str)-1)//2
   start = 0
```

```
def check symmetry(my str):
my string = input('Please enter a string: ')
print("The method to check a palindrome is being called...")
check_palindrome(my_string)
print("")
print("The method to check symmetry is being called...")
check symmetry(my string)
```

Please enter a string: mom

The method to check a palindrome is being called...

The entered string is palindrome

The method to check symmetry is being called...

The entered string is symmetrical

```
#9. Python Program to Form a New String where the First Character and the
Last Character have been Exchanged (Using Slicing).
string = input('Please enter a string: ')
print('')
print('Original String: ',string)
```

```
start = string[0]
end = string[-1]
swapped_string = end + string[1:-1] + start
print('')
print('Altered string: ',swapped_string)
```

Please enter a string: navrachana

Original String: navrachana

Altered string: aavrachann