

For Loop :

Q1. Write a Python program to reverse string without using slicing.

Sample TestCase:

Input:

```
num = 'Pentagon Space'
```

Output:

```
'ecapS nogatneP'
```

In [2]:

```
num = 'Pentagon Space'
rev = ''
for i in num:
    rev = i + rev
rev
```

Out[2]:

```
'ecapS nogatneP'
```

Q2. Write a Python program to reverse string 5 index from string without using slicing.

Sample TestCase:

Input:

```
num = 'Pentagon Space'
```

Output:

```
gatnePon Space
```

In [5]:

```
num = 'Pentagon Space'
kk = ''
number = 0
for x in num:
    if number < 6:
        kk = x + kk
        number += 1
    else:
        kk = kk + x
        number += 1
print(kk)
```

```
gatnePon Space
```

Q3. Write a Python program to remove duplicate values from string.

Sample TestCase:

Input:

```
num = 'Pentagon Space'
```

Output:

```
Pentago Spc
```

In [7]:

```
num = 'Pentagon Space'
unique = ''
for i in num:
    if i not in unique:
        unique = unique + i
unique
```

Out[7]:

'Pentago Spc'

While Loop :

Q4. Write a Python program to reverse string without using slicing.

Sample TestCase:

Input:

```
num = 'Pentagon Space'
```

Output:

```
'ecapS nogatneP'
```

In [9]:

```
num = 'Pentagon Space'
k = 0
rev = ''
while k < len(num):
    rev = num[k] + rev
    k = k + 1
rev
```

Out[9]:

'ecapS nogatneP'

In []:

Q5. Write a Python program to reverse last 5 index from string without using slicing.

Sample TestCase:

Input:

```
num = 'Pentagon Space'
```

Output:

```
ecapPentagon S
```

In [12]:

```
num = 'Pentagon Space'
k = 0
last_index = len(num)-5
rev = ''
while k<len(num):
    if k>last_index:
        rev = num[k] + rev
        k = k +1
    else:
        rev = rev + num[k]
        k = k +1
rev
```

Out[12]:

'ecapPentagon S'

Q6. Write a Python program to remove duplicate values from string.

Sample TestCase:

Input:

```
num = 'Pentagon Space'
```

Output:

```
Pentago Spc
```

In [14]:

```
num = 'Pentagon Space'
k = 0
unique = ''
while k<len(num):
    if num[k] not in unique:
        unique += num[k]
    k = k+1
unique
```

Out[14]:

'Pentago Spc'

In []: