



Loop Q&A

For Loop

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

Sample TestCase:

Input:

Pentagon Space

Output:

ecapS nogatneP

```
In [1]: num = 'Pentagon Space'
rev = ''
for i in num:
    rev = i + rev
rev
```

```
Out[1]: 'ecapS nogatneP'
```

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

Sample TestCase:

Input:

Pentagon Space

Output:

gatnePon Space

```
In [2]: 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:

Pentagon Space

Output:

Pentago Spc

```
In [3]: num = 'Pentagon Space'
unique = ''
for i in num:
    if i not in unique:
        unique = unique + i
unique
```

Out[3]: 'Pentago Spc'

While Loop

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

Sample TestCase:

Input:

Pentagon Space

Output:

ecapS nogatneP

```
In [4]: num = 'Pentagon Space'
k = 0
rev = ''
while k < len(num):
    rev = num[k] + rev
    k = k + 1
rev
```

Out[4]: 'ecapS nogatneP'

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

Sample TestCase:

Input:

Pentagon Space

Output:

ecapPentagon S

```
In [5]: 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[5]: 'ecapPentagon S'

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

Sample TestCase:

Input:

Pentagon Space

Output:

Pentago Spc

```
In [6]: num = 'Pentagon Space'
        k = 0
        unique = ''
        while k<len(num):
            if num[k] not in unique:
                unique += num[k]
            k = k+1
        unique
```

Out[6]: 'Pentago Spc'

In []: