Loop Question

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 [ ]: