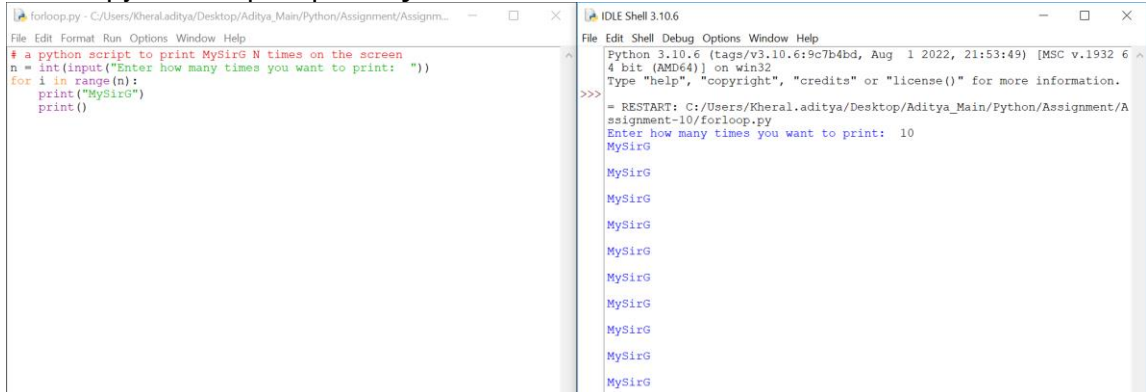


Assignment - 10 Full Stack Web Development using Python MySirG

For loop and range

1. Write a python script to print **MySirG** N times on the screen



The screenshot shows a Python script in a text editor and its execution in an IDLE Shell. The script prompts the user to enter the number of times to print 'MySirG'. The user enters 10, and the shell displays 'MySirG' ten times.

```
forloop.py - C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#a python script to print MySirG N times on the screen
n = int(input("Enter how many times you want to print: "))
for i in range(n):
    print("MySirG")
    print()
```

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter how many times you want to print: 10
MySirG
MySirG
MySirG
MySirG
MySirG
MySirG
MySirG
MySirG
MySirG
MySirG
```

2. Write a python script to print first N natural numbers



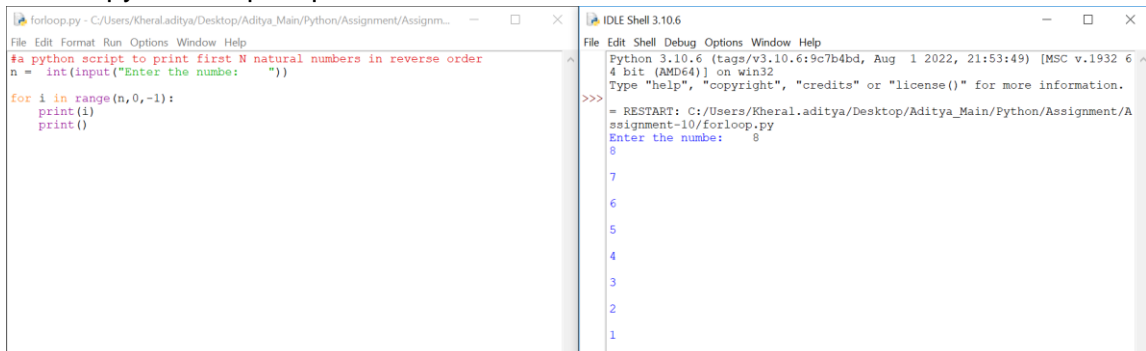
The screenshot shows a Python script in a text editor and its execution in an IDLE Shell. The script prompts the user to enter a number, and the shell displays the first 10 natural numbers.

```
forloop.py - C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#a python script to print first N natural numbers
n = int(input("Enter the numbe: "))

for i in range(1,n+1):
    print(i)
    print()
```

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter the numbe: 10
1
2
3
4
5
6
7
8
9
10
```

3. Write a python script to print first N natural numbers in reverse order




The screenshot shows a Python script in a text editor and its execution in an IDLE Shell. The script prompts the user to enter a number, and the shell displays the first 8 natural numbers in reverse order.

```
forloop.py - C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#a python script to print first N natural numbers in reverse order
n = int(input("Enter the numbe: "))

for i in range(n,0,-1):
    print(i)
    print()
```

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter the numbe: 8
8
7
6
5
4
3
2
1
```

4. Write a python script to print first N odd natural numbers



The screenshot shows a Python script in a text editor and its execution in an IDLE Shell. The script prompts the user to enter a number, and the shell displays the first 10 odd natural numbers.

```
forloop.py - C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#a python script to print first N odd natural numbers
n = int(input("Enter the numbe: "))

for i in range(0,2*n):
    if (i%2!=0):
        print(i)
        print()
```

```
IDLE Shell 3.10.6
File Edit Shell Debug Options Window Help
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter the numbe: 10
1
3
5
7
9
11
13
15
17
19
```

5. Write a python script to print first N odd natural numbers in reverse order

```
forloop.py - C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#a python script to print first N odd natural numbers
n = int(input("Enter the number: "))
for i in range(2*n,0,-1):
    if (i%2!=0):
        print(i)
        print()
```

```
IDLE Shell 3.10.6
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter the number: 10
19
17
15
13
11
9
7
5
3
1
...

```

6. Write a python script to print first N even natural numbers

```
forloop.py - C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#a python script to print first N even natural numbers in reverse
n = int(input("Enter the number: "))
for i in range(1,2*n+1):
    if (i%2==0):
        print(i)
        print()
```

```
IDLE Shell 3.10.6
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter the number: 10
2
4
6
8
10
12
14
16
18
20

```

7. Write a python script to print first N even natural numbers in reverse order

```
forloop.py - C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#a python script to print first N even natural numbers in reverse
n = int(input("Enter the number: "))
for i in range(2*n,0,-1):
    if (i%2==0):
        print(i)
        print()
```

```
IDLE Shell 3.10.6
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter the number: 10
20
18
16
14
12
10
8
6
4
2

```

8. Write a python script to print squares of first N natural numbers

```
forloop.py - C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#a python script to print squares of first N natural numbers
n = int(input("Enter the number: "))
for i in range(1,n+1):
    square= i**2
    print(square)
    print()
```

```
IDLE Shell 3.10.6
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheral.aditya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter the number: 10
1
4
9
16
25
36
49
64
81
100

```

9. Write a python script to print cubes of first N natural numbers

The screenshot shows a Python IDE with two windows. The left window, titled 'forloop.py', contains the following code:

```
forloop.py - C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#python script to print cubes of first N natural numbers
n = int(input("Enter the number: "))

for i in range(1,n+1):
    square= i**3
    print(square)
    print()
```

The right window, titled 'IDLE Shell 3.10.6', shows the output of the script after entering '10' as input:

```
IDLE Shell 3.10.6
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter the number: 10
1
8
27
64
125
216
343
512
729
1000
```

10. Write a python script to print first 10 multiples of Nq

The screenshot shows a Python IDE with two windows. The left window, titled 'forloop.py', contains the following code:

```
forloop.py - C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/Assignm...
File Edit Format Run Options Window Help
#python script to print first 10 multiples of Number.
n = int(input("Enter the number: "))

for i in range(1,n+1):
    multi= i*10
    print(multi)
    print()
```

The right window, titled 'IDLE Shell 3.10.6', shows the output of the script after entering '10' as input:

```
IDLE Shell 3.10.6
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Kheraladitya/Desktop/Aditya_Main/Python/Assignment/A
ssignment-10/forloop.py
Enter the number: 10
10
20
30
40
50
60
70
80
90
100
```