

ASSIGNMENT 2

PROGRAM 1: PRIME OR NOT

 *untitled*

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```
# program to check if the number is prime or not
n = int(input("Enter the number : "))

prime = True
for i in range(2, n):
    if (n % 2 == 0):
        print(n, " is not a prime number")
        prime = False
        break

if prime:
    print(n, " is a prime number")
```

OUTPUT:

 IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022,
AMD64) on win32
Type "help", "copyright", "credits" or "license()"
>>>
===== RESTART: C:/Users/hp/OneDrive/De
Enter the number : 5
5 is a prime number
>>>
```

PROGRAM 2 : ODD NUMBERS

```
ODD.py - C:/Users/hp/OneDrive/Desktop/ODD.py (3.10.7)
File Edit Format Run Options Window Help
# to generate odd numbers from m to n using while loop
n = int(input("Enter the value of m : "))
n = int(input("Enter the value of n : "))

while(m <= n):
    if(not m % 2 == 0):
        print(m)

    m = m + 1
```

OUTPUT:

```
IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:
AMD64) on win32
Type "help", "copyright", "credits" or "license()" fo
>>>
===== RESTART: C:/Users/hp/OneDrive/Desktop
Enter the value of m : 10
Enter the value of n : 15
11
13
15
>>>
```

PROGRAM 3 : PRIME NO SERIES

 SEROIES.py - C:/Users/hp/OneDrive/Desktop/SEROIES.py (3.9.10)


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```
# program to display prime number series up to given number.
a = int(input("Enter the min limit : "))
b = int(input("Enter the max limit : "))

for i in range(a, b+1):
    for j in range(2, a):
        if(i % j == 0):
            break

    else:
        print(i)
```

OUTPUT :

 IDLE Shell 3.9.10

File Edit Shell Debug Options Window Help

Python 3.9.10 (tags/v3.9.10:f2f3f53, Jan 17 2022, 15:14:21
AMD64) on win32

Type "help", "copyright", "credits" or "license()" for mor
>>>

===== RESTART: C:/Users/hp/OneDrive/Desktop/SERC

Enter the min limit : 10

Enter the max limit : 30

11

13

17

19

23

29

>>>

PROGRAM 4 : FIBONACCI SERIES

 FIB.py - C:/Users/hp/OneDrive/Desktop/FIB.py (3.9.10)

```
File Edit Format Run Options Window Help
# program to generate Fibonacci series
n = int(input("How many terms ?"))
count = 0

if(n <= 0):
    print("Enter a positive integer")


elif(n == 1):
    print(1)

else:
    n1 = 0
    n2 = 1
    print("The fibonacci sequence is :")

    while(count <= n):
        print(n1)
        nth = n1 + n2
        n1 = n2
        n2 = nth

        count += 1
```

OUTPUT:

 IDLE Shell 3.9.10

```
File Edit Shell Debug Options Window Help
Python 3.9.10 (tags/v3.9.10:f2f3f53, Jan 17 20
AMD64)] on win32
Type "help", "copyright", "credits" or "licens
>>>
===== RESTART: C:/Users/hp/OneDriv
How many terms ?10
The fibonacci sequence is :
0
1
1
2
3
5
8
13
21
34
55
>>>
```

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