Assignment

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Program 1:

Write a python program to test a given number is prime or not.

```
num = int(input("enter the number:"))

if num > 1:

    for i in range(2, int(num / 2) + 1):

        if (num % i) == 0:
            print(num, "is not a prime number")
            break
    else:
        print(num, "is a prime number")
else:
    print(num, "is not a prime number")
```

OUTPUT:

```
C:\Users\Admin\Desktop\Dconnect\venv\Scripts\python.exe E:/4.py
enter the number:8
8 is not a prime number

Process finished with exit code 0
```

```
C:\Users\Admin\Desktop\Dconnect\venv\Scripts\python.exe E:/4.py
enter the number:5
5 is a prime number

Process finished with exit code 0
```

Program 2:

Write a program to generate odd numbers from m to n using while loop

```
start=int(input("enter the start number :"))
end=int(input("enter the end number :"))
while start<=end:

    if start%2!=0:

        print(start,end="")
    start+=1
```

OUTPUT:

```
C:\Users\Admin\Desktop\Dconnect\venv\Scripts\python.exe E:/1.py
enter the start number :0
enter the end number :10
13579
Process finished with exit code 0
```

Program 3:

Write a Python program to display prime number series up to given number.

```
start = int(input("Enter the start num : "))
end = int(input("Enter the min num : "))
for n in range(start,end + 1):
   if n > 1:
       for i in range(2,n):
           if (n % i) == 0:
               break
       else:
           print(n)
```

OUTPUT:

```
C:\Users\Admin\Desktop\Dconnect\venv\Scripts\python.exe E:/3.py
Enter the start num : 5
Enter the min num : 15
5
7
11
13

Process finished with exit code 0
```

Program 4:

Write a Python program to generate Fibonacci series.

```
num = int(input("enter the number:"))
n1, n2 = 0, 1
print("Fibonacci Series:", n1, n2, end=" ")
for i in range(2, num):
    n3 = n1 + n2
    n1 = n2
    n2 = n3
    print(n3, end=" ")

print()
```

OUTPUT:

```
C:\Users\Admin\Desktop\Dconnect\venv\Scripts\python.exe E:/4.py
enter the number:15
Fibonacci Series: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377

Process finished with exit code 0
```