Assignment -4

Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

Question-1:

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

```
Solution :
n = int(input("Enter a
number: "))
f = False
if n> 1:
    for i in range(2, n):
        if (n % i) == 0:
            f = True
            break
if f:
    print(n, "is not a prime
number")
else:
    print(n, "is a prime
number")
```

Question-2:

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

```
Solution :
min = int(input(" Enter any min value:"))
max = int(input(" Enter any max Value : "))
X=1;
if (min < max):</pre>
```

```
while X in range(min,max+ 1):
    if( X % 2 != 0):
        print("{0}".format(X))
        X=X+1;
else:
    print("min value you've entered is greater than max value")
```

```
## Odd.gv - C\Users\svan\Downloads\odd.py (3.96)

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## Int = int(input(" Enter any min value:"))

## X=1;

## (min < max):

## while X in range (min,max + 1):

## if (X & 2 != 0):

## print("#10" format(X))

## x=x+1;

## else:

## print("min value you've entered is greater than max value")

## Int Col: 0

## IDES Shell 39.6

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```

Question-3:

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

```
Solution:
l = 1
u = int(input("Enter the number : "))
print("Prime numbers between",1,"and",u,"are:")
for n in range(l,u + 1):
    if n > 1:
        for i in range(2, n):
            if (n%i) == 0:
                 break
        else:
            print(n)
```

Question-4:

Write a Python program to generate Fibonacci series.

```
Solution:
nt = int(input("How many terms? "))
n1, n2 = 0, 1
c = 0
if nt <= 0:
 print("enter a +ve integer")
elif nt == 1:
 print("Fibonacci upto",nt,":")
 print(n1)
else:
 print("Fibonacci series:")
 while c < nt:
   print(n1)
   nth = n1 + n2
   n1 = n2
   n2 = nth
   c += 1
```

