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:

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

```
X P IDLE Shell 3.10.6
nrime1.py - F:\IBM\FILES IBM\prime1.py (3.10.6)
                                                                                       File Edit Shell Debug Options Window Help
File Edit Format Run Options Window Help
num = int(input("Enter your number:"))
flag = False
                                                                                           Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit ( AMD64)] on win32
if num > 1:
                                                                                            Type "help", "copyright", "credits" or "license()" for more information.
    for i in range(2, num):
       if (num % i) == 0:
    flag = True
                                                                                            ----- RESTART: F:\IBM\FILES IBM\prime1.py -----
                                                                                            Enter your number:242
                                                                                            242 is not a prime number
if flag:
print(num, "is not a prime number")
else:
                                                                                                                 === RESTART: F:\IBM\FILES IBM\primel.py =====
                                                                                            Enter your number:59
    print(num, "is a prime number")
                                                                                            59 is a prime number
```

Question-2:

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

Solution:

```
start= int(input(" Please Enter A minimum value:"))
end=int(input(" Please Enter B Maximum Value : "))
for num in range(start, end + 1):
    if num % 2 != 0:
        print(num, end = " ")
```

Question-3:

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

Solution:

```
lower =int(input(" Please Enter minimum value:"))
upper =int(input(" Please Enter maximum value:"))
print("Prime numbers between", lower, "and", upper, "are:")
for num in range(lower, upper + 1):
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                 break
        else:
            print(num)
```

Question-4:

Write a python program to generate Fibonacci series

Solution:

```
n = int(input("How many terms?"))
n1, n2 = 0, 1
count = 0
if n <= 0:
 print("Please enter a positive integer")
elif n == 1:
 print("Fibonacci sequence upto",n,":")
 print(n1)
else:
 print("Fibonacci sequence:")
 while count < n:
    print(n1)
   nth = n1 + n2
   n1 = n2
   n2 = nth
   count += 1
```