Assignment -1

Python Programming

Assignment Date	19 September 2022
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Maximum Marks	2 Marks

1.write a program to find prime number or not

```
# Number to be checked for prime
n = 5
# Check if the number is greater than 1
if n > 1:
    for i in range(2, int(n/2)+1):
        if (n % i) == 0:
            print(num, "is not a prime number")
        break
    else:
        print(n, "is a prime number")
# If the number is less than 1, its also not a prime number.
else:
    print(n, "is not a prime number")
```

2.write a program to generate m to n numbers using while loop

```
n = int(input("Please Enter any Number: "))
m=int(input(“please Enter any Number:”))

print("Natural Numbers from 1 to {0} are".format(num))
```

```
while (i<= num):
 print (i, end = ' ')
i = i + 1
```

3.write a program to display prime numbers series upto given number

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

4.write a python program to generate Fibonacci series.

```
nterms = int(input("How many terms? "))

# first two terms
n1, n2 = 0, 1
count = 0

# check if the number of terms is valid
if nterms<= 0:
print("Please enter a positive integer")
# if there is only one term, return n1
elifnterms == 1:
```

```
print("Fibonacci sequence upto",nterms,":")
  print(n1)
# generatefibonacci sequence
else:
print("Fibonacci sequence:")
  while count <nterms:
      print(n1)
      nth = n1 + n2
      # update values
      n1 = n2
      n2 = nth
      count += 1
```