Assignment no - 1

Date	24.09.2022		
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Maximum Marks	2 marks		

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

```
Solution:
```

num = 11

If given number is greater than 1

if num > 1:

```
# Iterate from 2 to n/2
```

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

If num is divisible by any number between

2 and n / 2, it is not prime

if (num % i) == 0:

print(num, "is not a prime number")

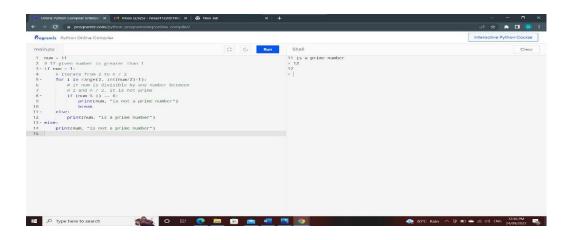
break

else:

print(num, "is a prime number")

else:

print(num, "is not a prime number")



2.write a python program to generate odd numbers from m to n using while loop Program:

Python program to print odd Numbers in a List

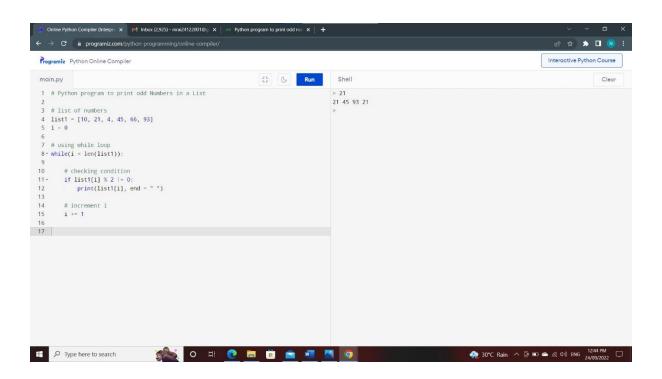
```
# list of numbers
list1 = [10, 21, 4, 45, 66, 93]
i = 0
```

using while loop
while(i < len(list1)):</pre>

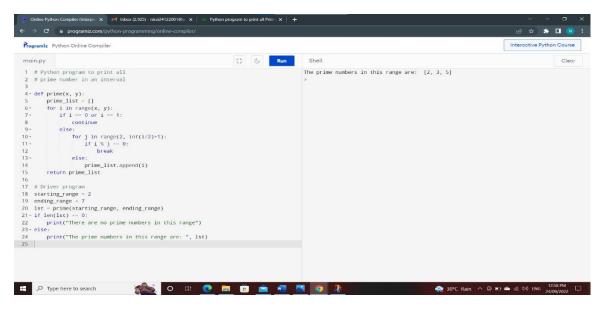
```
# checking condition
if list1[i] % 2 != 0:
    print(list1[i], end = " ")
```

increment i

i += 1



```
3.write a python program to display prime number series up to given number
Program:
# Python program to print all
# prime number in an interval
def prime(x, y):
        prime_list = []
        for i in range(x, y):
                if i == 0 or i == 1:
                        continue
                else:
                        for j in range(2, int(i/2)+1):
                                if i % j == 0:
                                        break
                        else:
                                prime_list.append(i)
        return prime_list
# Driver program
starting_range = 2
ending_range = 7
lst = prime(starting_range, ending_range)
if len(lst) == 0:
        print("There are no prime numbers in this range")
else:
        print("The prime numbers in this range are: ", lst)
```



4. write a python program to generate Fibonacci series

Program: series

```
#Python program to generate Fibonacci until 'n' value  n = int(input("Enter the value of 'n': ")) \\ a = 0
```

b = 1

sum = 0

count = 1

print("Fibonacci Series: ", end = " ")

while(count <= n):

print(sum, end = " ")

count += 1

a = b

b = sum

sum = a + b

