IBM ASSIGNMENT 1:

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

PROGRAM

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

OUTPUT

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

PROGRAM

```
first=int(input("enter first number"))
last=int(input("enter last number"))
for n in range(first,last+1):
    if n>1:
        for i in range(2,n):
            if(n%i)==0:
                 break
            else:
                 print(n)
```

OUTPUT

3. Write a python program to generate Fibonacci series.

PROGRAM

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

OUTPUT

```
### Comparison of the Comparis
```

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

PROGRAM

```
\begin{split} \text{maximum} &= \text{int}(\text{input}(\text{" Please Enter the Maximum Value : ")}) \\ \text{number} &= 1 \\ \end{split} while number <= \text{maximum:}  & \text{if}(\text{number } \% \ 2 \ != 0) \text{:} \\ & \text{print}(\text{"}\{0\}\text{".format}(\text{number})) \\ & \text{number} &= \text{number} + 1 \end{split}
```

OUTPUT

```
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### maximum * init(sputit (" Please Enter the Maximum Value : "))
number * 2 != 0);

### file number < maximum * init(sputit (" Init
```