ASSIGNMENT – 1

1.Check if prime or not:

Program:

```
print("Prime or not")

a = int(input("Enter the number to check if it is a prime : "))

if a > 1:

  for i in range(2, a):

    if (a % i) == 0:

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

      break

  else:

    print(a, " is a prime number")

else:

  print(a, " is neither prime nor composite")
```

Output:

2.Generate odd number from m to n using while loop:

Program:

```
print("Generate odd numbers")

print("Finding odd numbers in a given range ...")

m = int(input("From : "))

n = int(input("To :"))

while m < n+1:

    if(m%2)!=0:

        print("{} is a odd number".format(m))

    m = m + 1
```
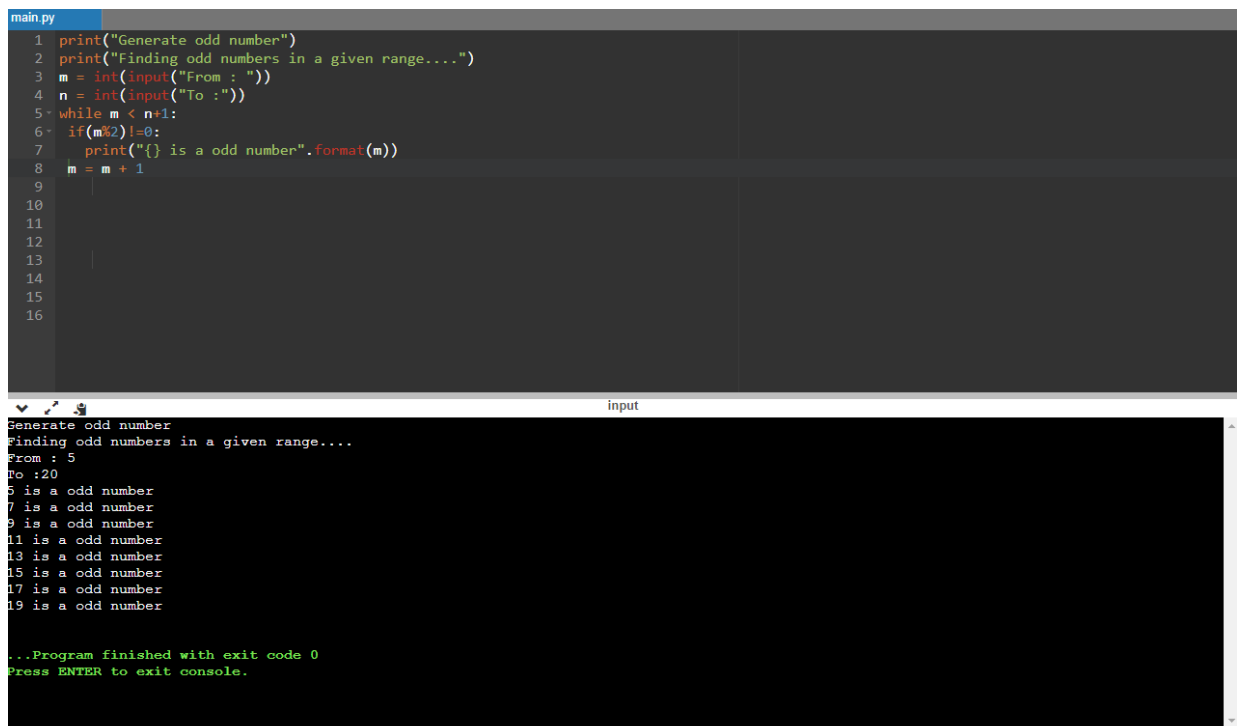
Output:

```
main.py
 1  print("Generate odd number")
 2  print("Finding odd numbers in a given range....")
 3  m = int(input("From : "))
 4  n = int(input("To :"))
 5  while m < n+1:
 6    if(m%2)!=0:
 7      print("{} is a odd number".format(m))
 8    m = m + 1
 9
10
11
12
13
14
15
16
```

```
                                    input
Generate odd number
Finding odd numbers in a given range....
From : 5
To :20
5 is a odd number
7 is a odd number
9 is a odd number
11 is a odd number
13 is a odd number
15 is a odd number
17 is a odd number
19 is a odd number

...Program finished with exit code 0
Press ENTER to exit console.
```

3.Display prime number series upto given number:

Program:

```
print("Display Prime number series")
a = int(input("Enter the lower bound: "))
b = int(input("Enter the upper bound: "))
for i in range(a,b+1):
  if i > 1:
    for j in range(2, i):
      if (i % j) == 0:
        break
    else:
      print(i , " is a prime number")
  else:
    print(i , " is neither prime nor composite")
```
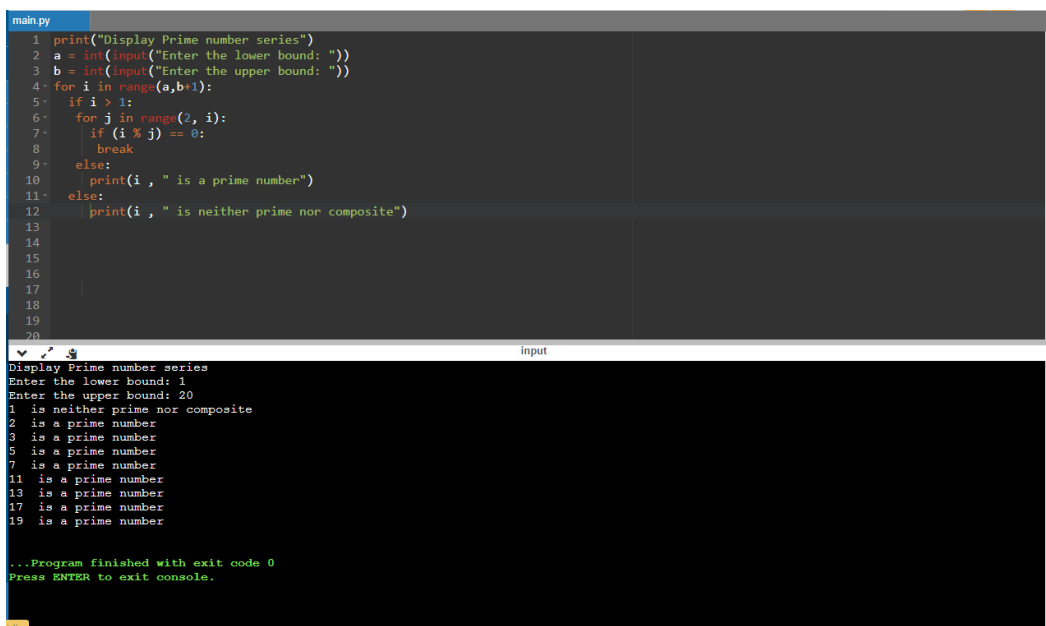
Output:

4.Generate Fibonacci Series:

Program:

```python
print("Fibonacci series")
a = 0
b = 1
n = int(input("Enter the range of fibonacci numbers you wish to find : "))
print(a)
print(b)
for i in range(0,n-2):
    fib = a + b
    print(fib)
    a =  b
    b = fib
    i = i + 1
```
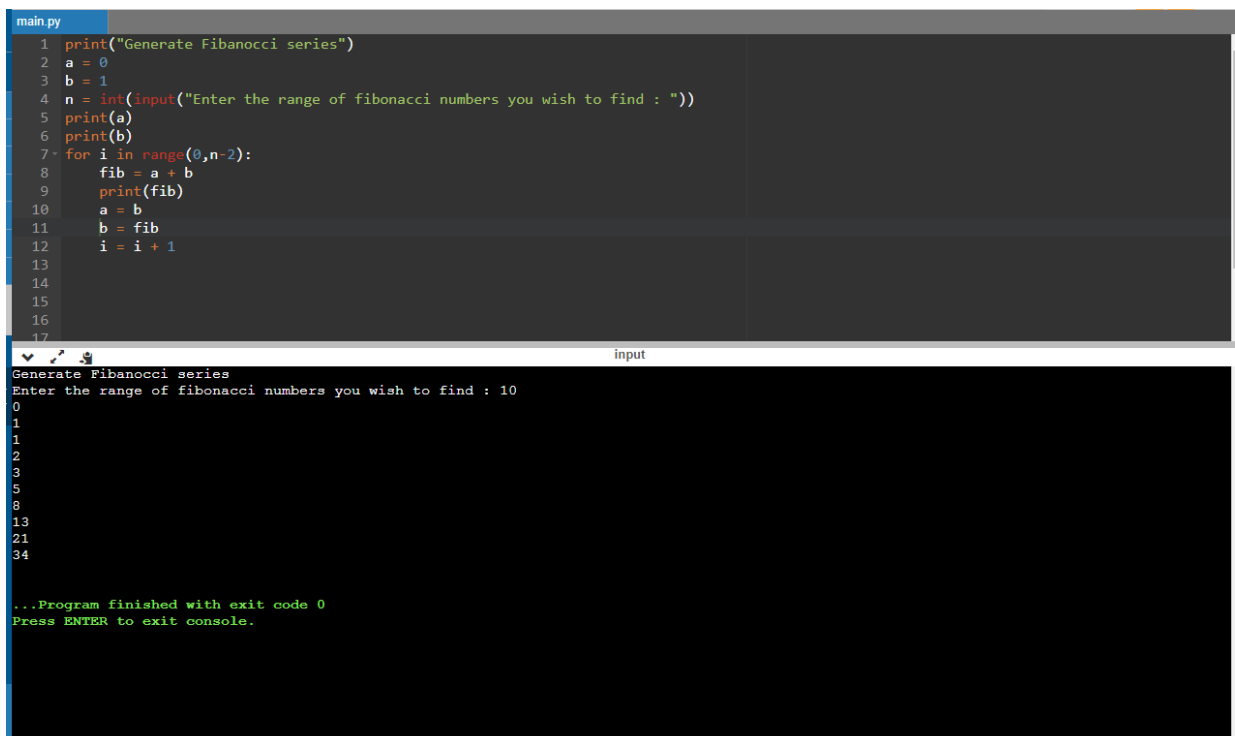
Output: