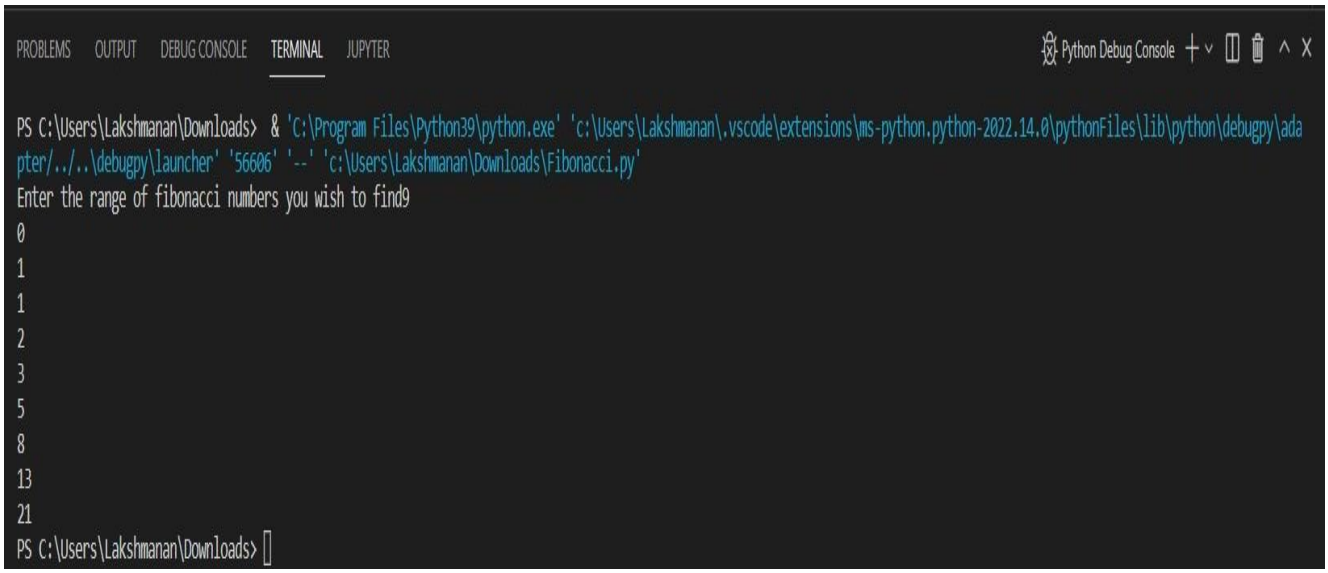
PYTHON ASSIGNMENT

1. FIBONACCI SERIES:

PROGRAM:

```
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:

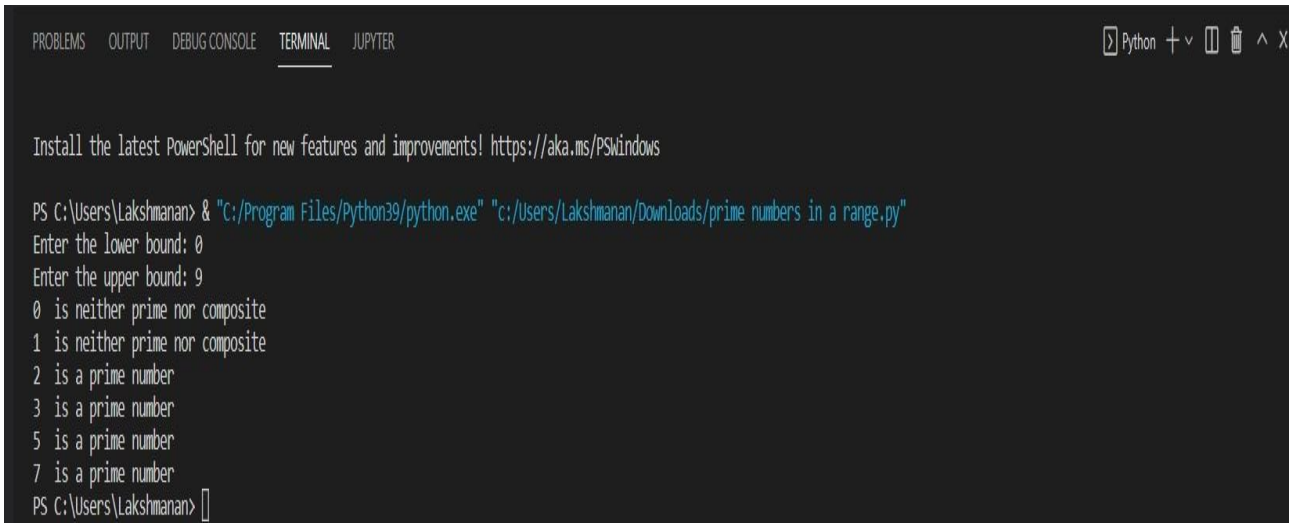


2. PRIME NUMBER IN A RANGE:

PROGRAM:

```
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:

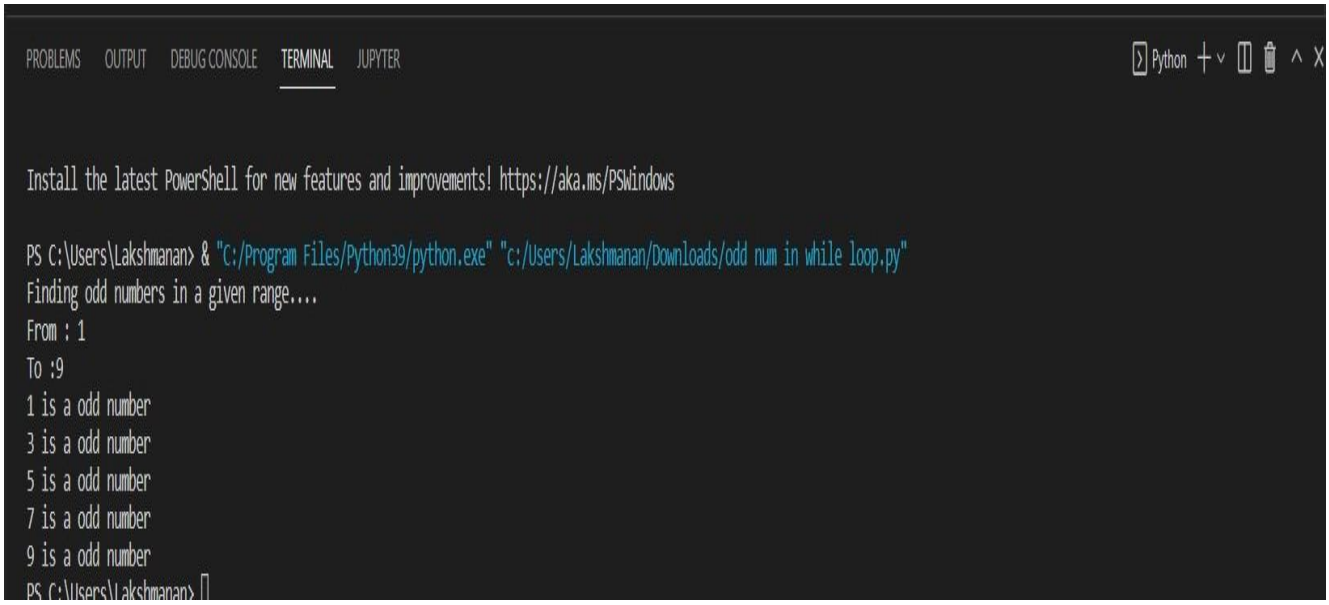


3. ODD NUMBER IN WHILE LOOP:

PROGRAM:

```
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:



4. CHECK PRIME NOR COMPOSITE:

PROGRAM:

```
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: