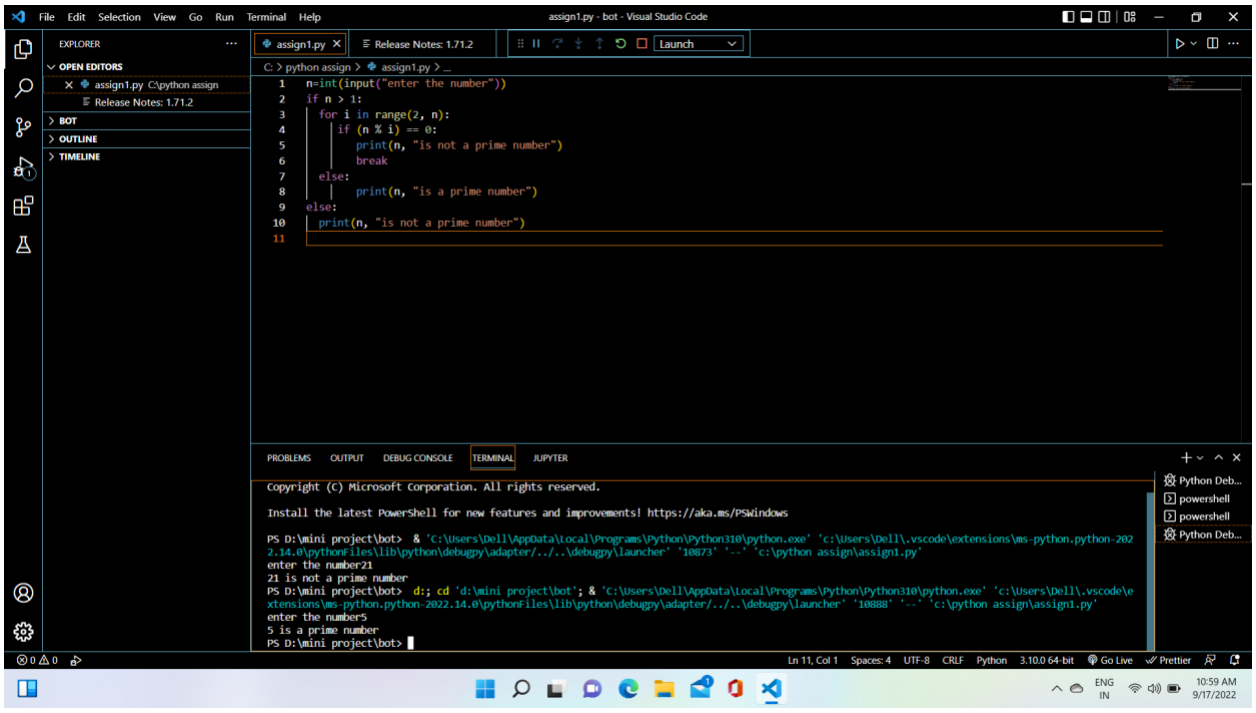
IBM ASSIGNMENT 1

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:

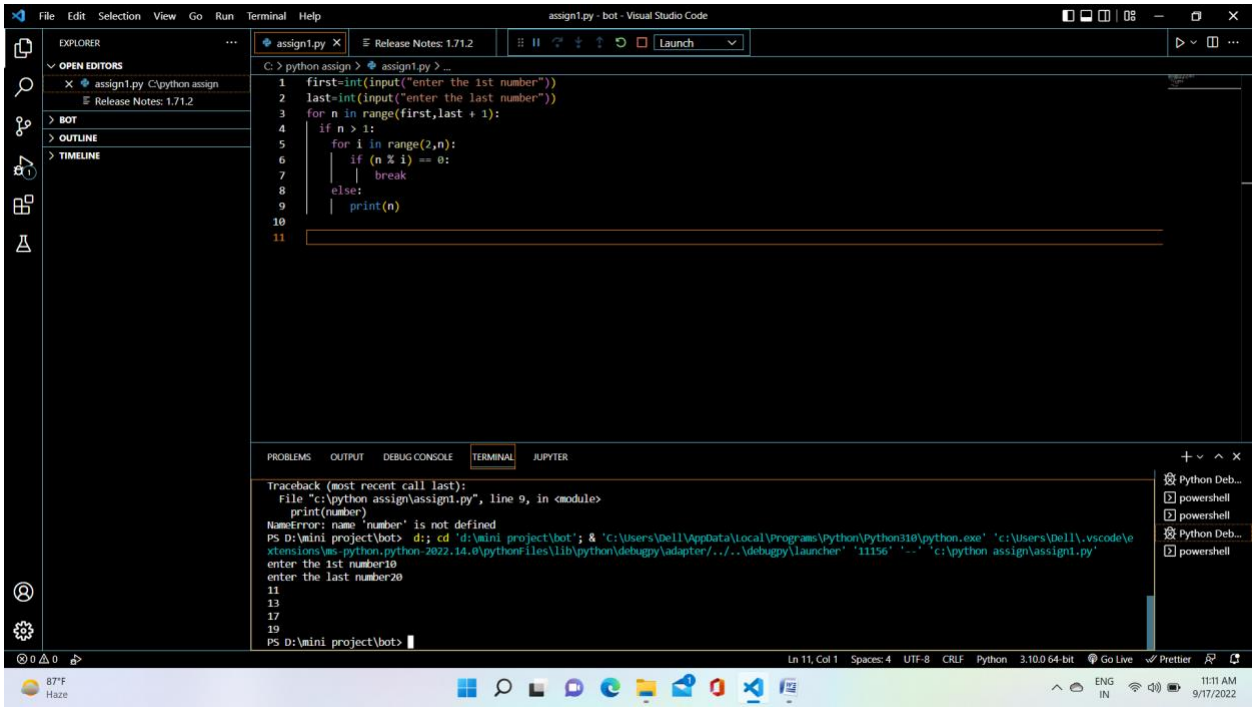


2.Write a python program to display prime number series up to given number

Program:

```
first=int(input("enter the 1st number"))
last=int(input("enter the 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:

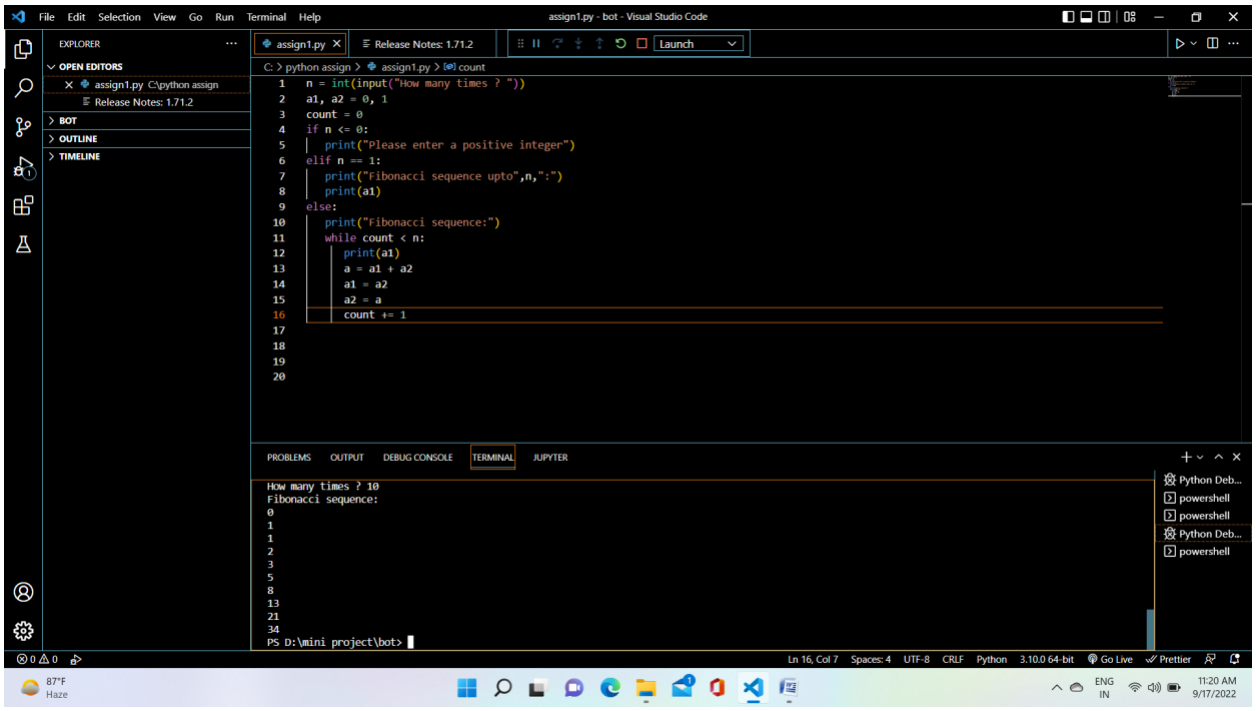


3.Write a python program to generate fibonacci series

Program:

```
n = int(input("How many times ? "))
a1, a2 = 0, 1
count = 0
if n <= 0:
print("Please enter a positive integer")
elif n == 1:
print("Fibonacci sequence upto",n,":")
print(a1)
else:
print("Fibonacci sequence:")
while count < n:
print(a1)
a = a1 + a2
a1 = a2
a2 = a
count += 1
```

OUTPUT:

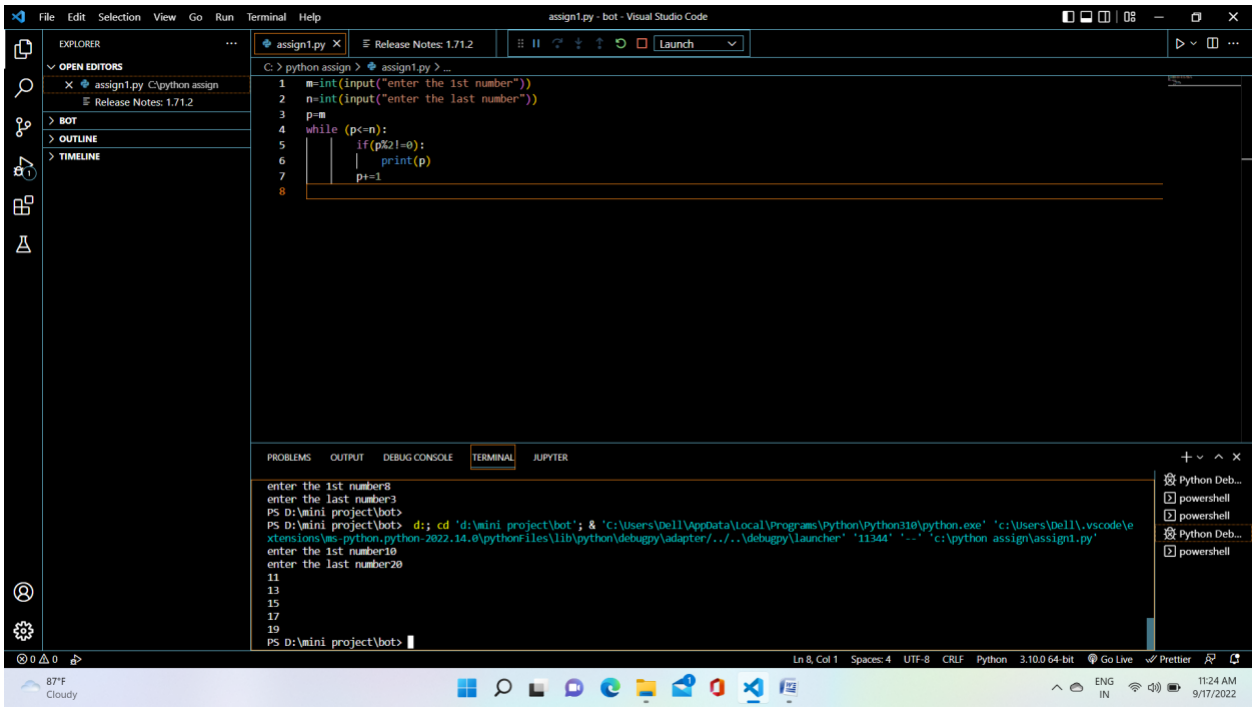


4.Write a program to generate odd numbers from m to n using while loop.

Program:

```
m=int(input("enter the 1st number"))
n=int(input("enter the last number"))
p=m
while (p<=n):
    if(p%2!=0):
        print(p)
    p+=1
```

OUTPUT:


File Edit Selection View Go Run Terminal Help
assign1.py - bot - Visual Studio Code
EXPLORER
OPEN EDITORS
assign1.py C:\python assign
Release Notes: 1.71.2
BOT
OUTLINE
TIMELINE
assign1.py
Release Notes: 1.71.2
Launch
C: > python assign > assign1.py > ...
1 m=int(input("enter the 1st number"))
2 n=int(input("enter the last number"))
3 p=m
4 while (p<=n):
5 if(p%2!=0):
6 print(p)
7 p+=1
8
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
enter the 1st number8
enter the last number3
PS D:\mini project\bot>
PS D:\mini project\bot> d:; cd 'd:\mini project\bot'; & 'C:\Users\Dell\AppData\Local\Programs\Python\Python310\python.exe' 'c:\Users\Dell\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher' '11344' '--' 'c:\python assign\assign1.py'
enter the 1st number10
enter the last number20
11
13
15
17
19
PS D:\mini project\bot>
Python Deb...
powershell
powershell
Python Deb...
powershell
Ln 8, Col 1 Spaces: 4 UTF-8 CRLF Python 3.10.0 64-bit Go Live Prettier
87°F
Cloudy
ENG
IN
11:24 AM
9/17/2022