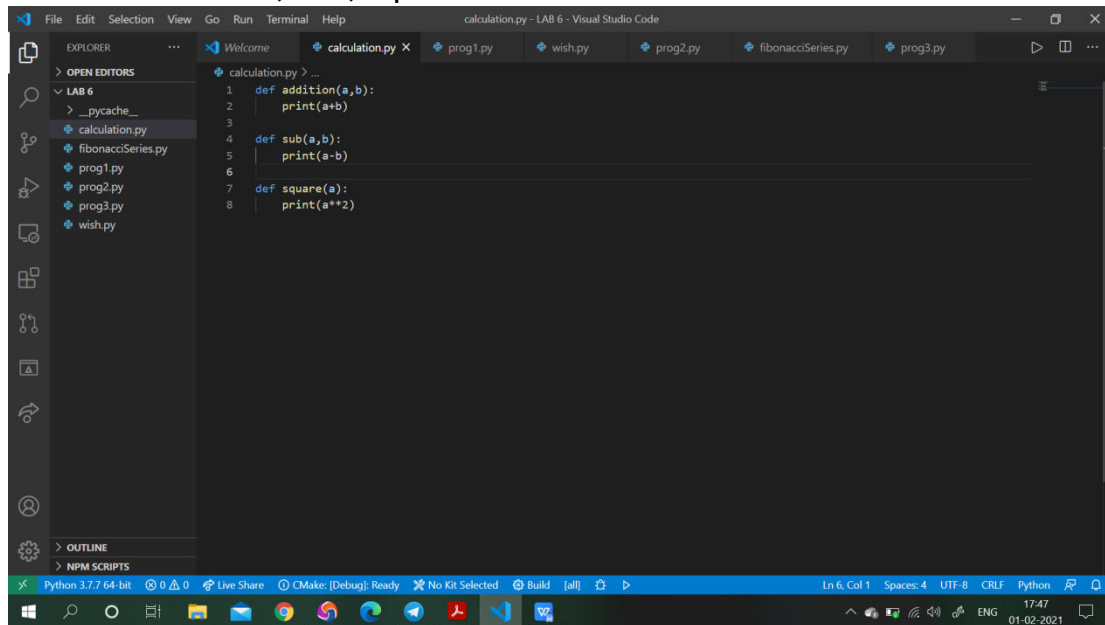


T&T LAB-6

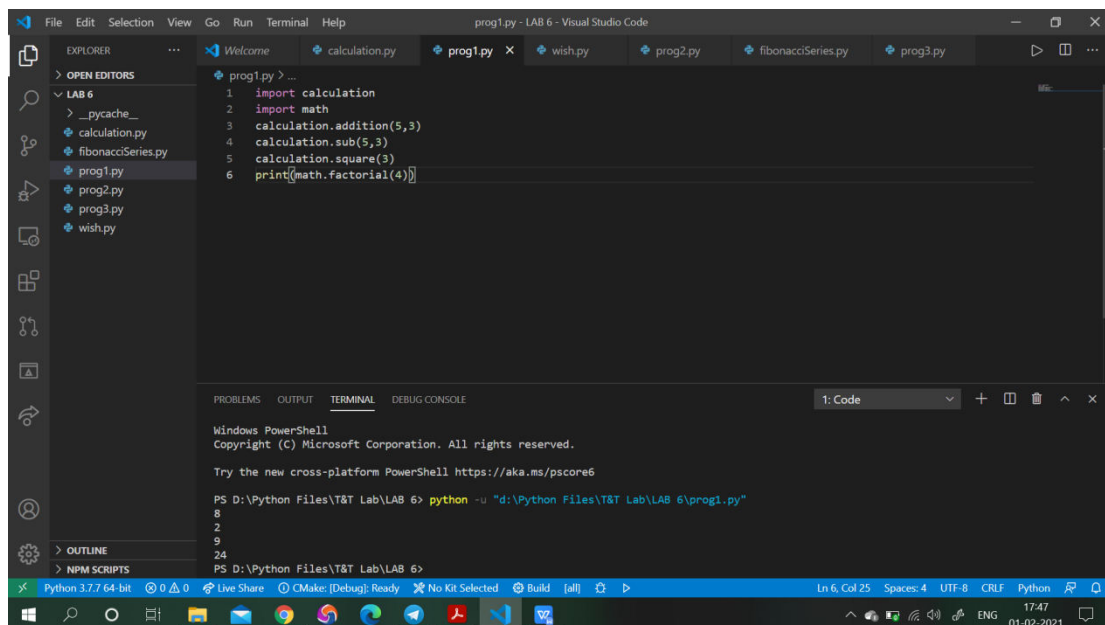
BISWARUP MUKHERJEE

ROLL-1806468

1. Name a module calculation, import the modules and we have to calculate addition, sub, square and factorial.



```
1 def addition(a,b):
2     print(a+b)
3
4 def sub(a,b):
5     print(a-b)
6
7 def square(a):
8     print(a**2)
```



```
1 import calculation
2 import math
3 calculation.addition(5,3)
4 calculation.sub(5,3)
5 calculation.square(3)
6 print(math.factorial(4))
```

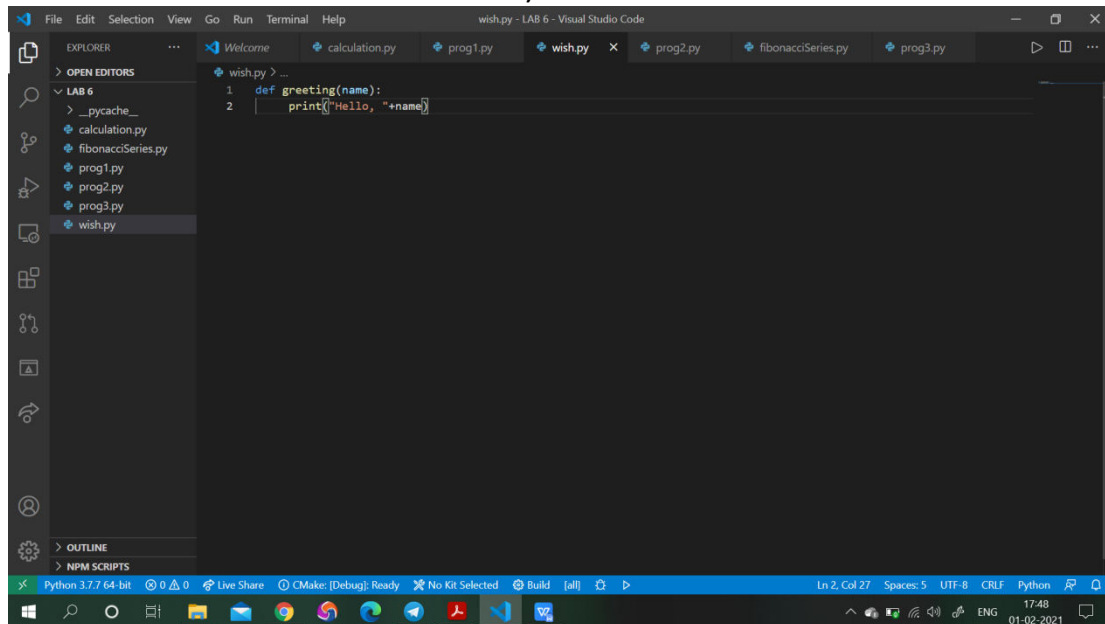
Windows PowerShell
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS D:\Python Files\T&T Lab\LAB 6> python -u "d:\Python Files\T&T Lab\LAB 6\prog1.py"

8
2
9
24
PS D:\Python Files\T&T Lab\LAB 6>

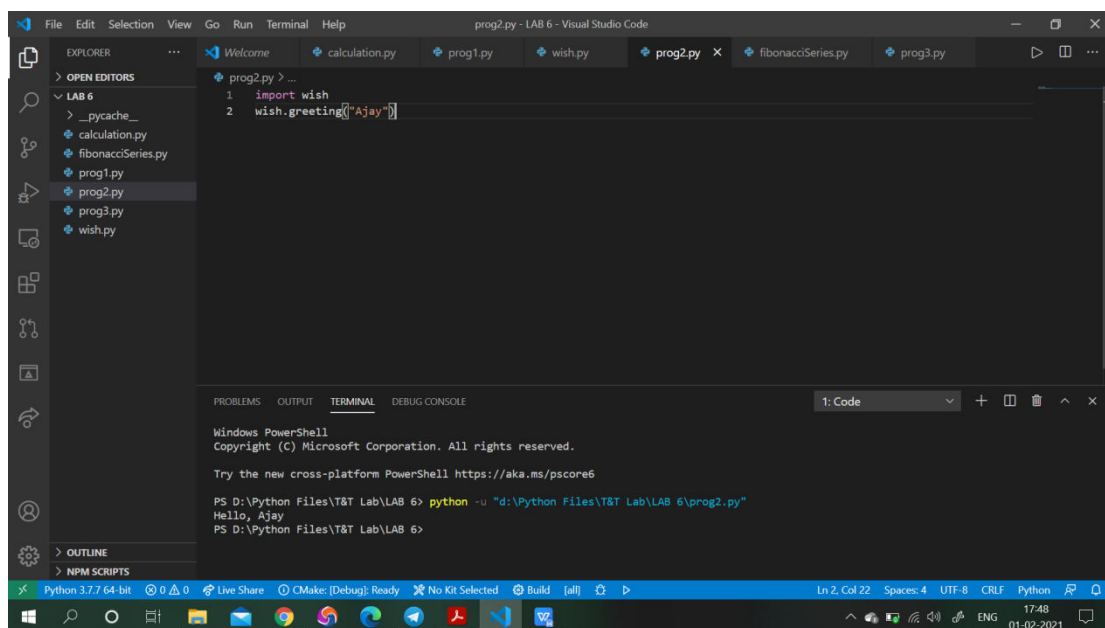
2. Make a python module named wish and import the module(there has to be a name and some salutation).



```
File Edit Selection View Go Run Terminal Help
wish.py - LAB 6 - Visual Studio Code

EXPLORER
> OPEN EDITORS
  wish.py > ...
  calculation.py
  prog1.py
  prog2.py
  prog3.py
  wish.py

1 def greeting(name):
2     print("Hello, "+name)
```



```
File Edit Selection View Go Run Terminal Help
prog2.py - LAB 6 - Visual Studio Code

EXPLORER
> OPEN EDITORS
  prog2.py > ...
  calculation.py
  fibonacciSeries.py
  prog1.py
  prog2.py
  prog3.py
  wish.py

1 import wish
2 wish.greeting("Ajay")

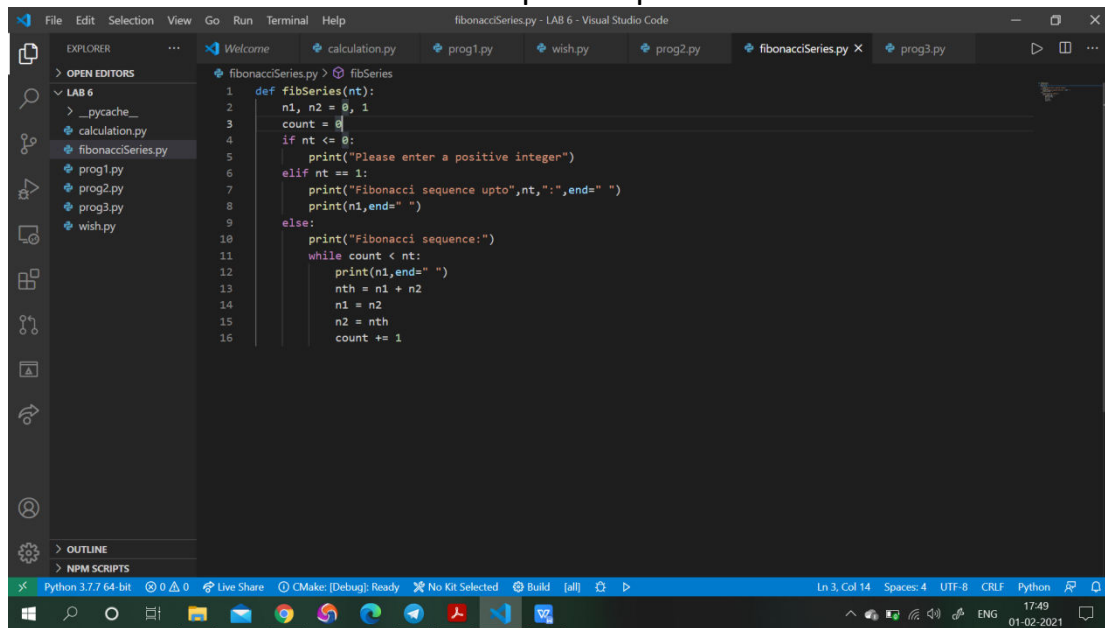
PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE
1: Code

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

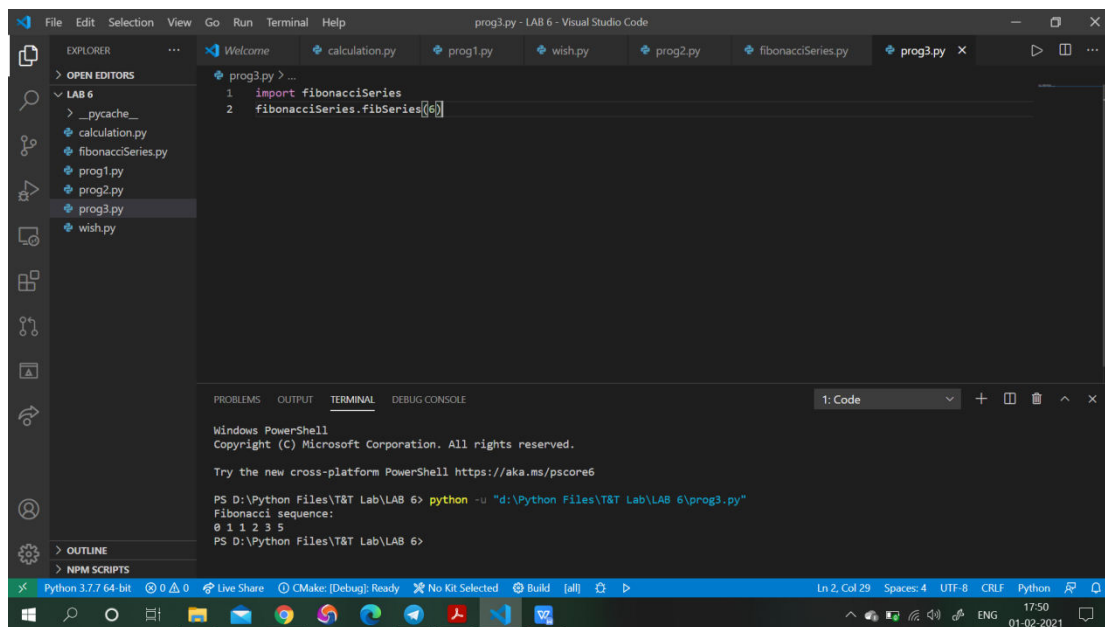
PS D:\Python Files\T&T Lab\LAB 6> python -u "d:\Python Files\T&T Lab\LAB 6\prog2.py"
Hello, Ajay
PS D:\Python Files\T&T Lab\LAB 6>
```

3. Module fibonacci series and import to print the series.



The screenshot shows the Visual Studio Code editor with the file `fibonacciSeries.py` open. The code defines a function `fibSeries(nt)` that prints the Fibonacci sequence up to `nt`. The code is as follows:

```
1 def fibSeries(nt):
2     n1, n2 = 0, 1
3     count = 0
4     if nt <= 0:
5         print("Please enter a positive integer")
6     elif nt == 1:
7         print("Fibonacci sequence upto",nt,":",end=" ")
8         print(n1,end=" ")
9     else:
10        print("Fibonacci sequence:")
11        while count < nt:
12            print(n1,end=" ")
13            nth = n1 + n2
14            n1 = n2
15            n2 = nth
16            count += 1
```



The screenshot shows the Visual Studio Code editor with the file `prog3.py` open. The code imports the `fibonacciSeries` module and calls `fibonacciSeries.fibSeries(6)`. The code is as follows:

```
1 import fibonacciSeries
2 fibonacciSeries.fibSeries(6)
```

The terminal output shows the execution of the program:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Python Files\T&T Lab\LAB 6> python -u "d:\Python Files\T&T Lab\LAB 6\prog3.py"
Fibonacci sequence:
0 1 1 2 3 5
PS D:\Python Files\T&T Lab\LAB 6>
```