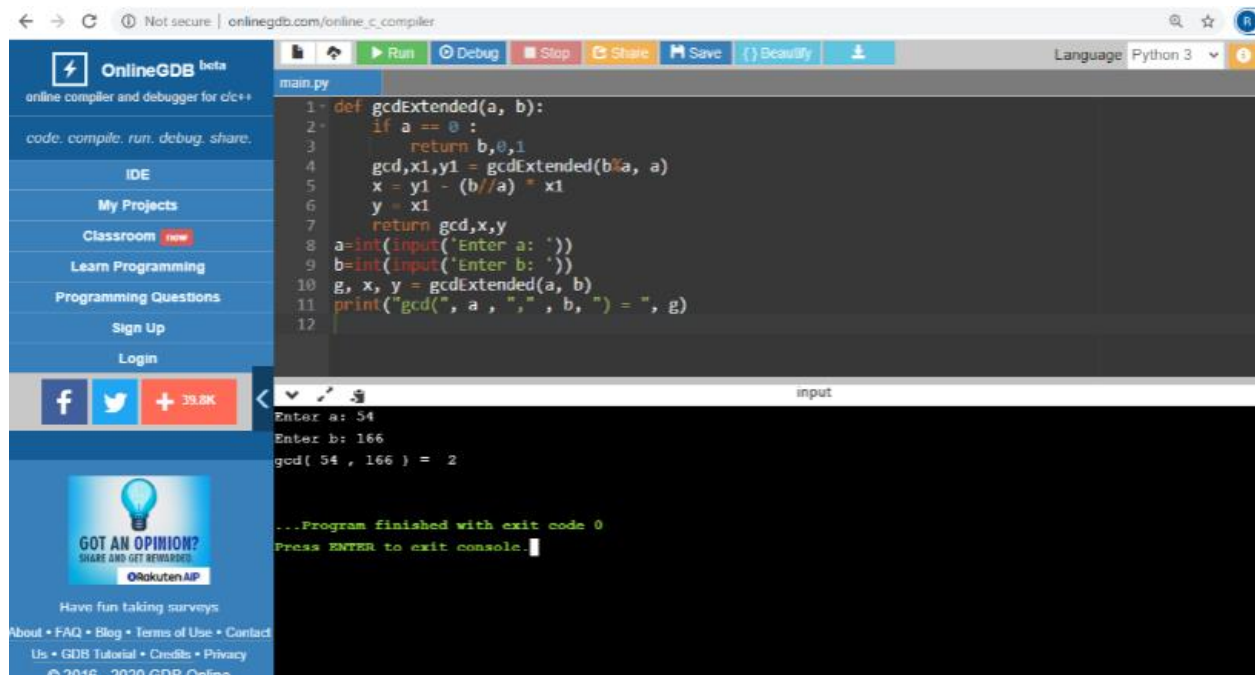


## **DAILY ONLINE ACTIVITIES SUMMARY**

Date:	18-07-2020	Name:	M.C Suchithra Heggade
Sem & Sec	VI Sem A	USN:	4AL17CS047
<b>Pre-placement Training Summary</b>			
Subject	CGV IA 2		
Max. Marks	-	Score	-
<b>Online Certification Summary</b>			
Course	Python Data Structures		
Certificate Provider	Coursera	Duration	7 week
<b>Coding Challenges</b>			
Problem Statement: 1 Program			
Status:Completed			
Uploaded the report in Github		Yes	
If yes Repository name		<a href="https://github.com/Suchitraheggade/certification-on-Online-coding">https://github.com/Suchitraheggade/certification-on-Online-coding</a>	
Uploaded the report in slack		Yes	

## Coding Challenges Details:

### 1. Write a Python Program for Extended Euclidean algorithms



The screenshot shows the OnlineGDB website interface. The top navigation bar includes links for "code", "compile", "run", "debug", and "share". The main toolbar contains buttons for "Run", "Debug", "Stop", "Share", "Save", and "Beautify". The language is set to "Python 3".

The code editor displays the following Python program:

```
1 def gcdExtended(a, b):
2     if a == 0:
3         return b, 0, 1
4     gcd, x1, y1 = gcdExtended(b%a, a)
5     x = y1 - (b//a) * x1
6     y = x1
7     return gcd, x, y
8 a = int(input("Enter a: "))
9 b = int(input("Enter b: "))
10 g, x, y = gcdExtended(a, b)
11 print("gcd( ", a, ", ", b, ") = ", g)
12
```

The console output shows the program execution:

```
Enter a: 54
Enter b: 166
gcd( 54 , 166 ) = 2

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