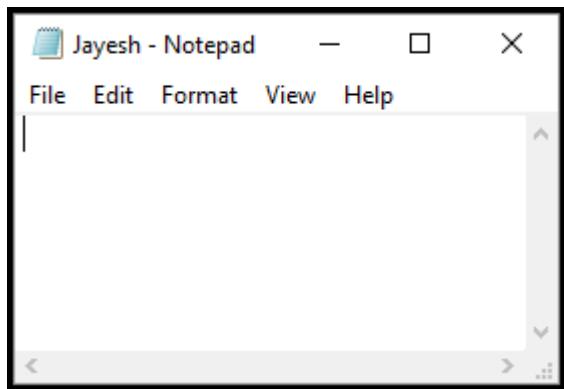


Step 01:

Open a textpad or notedpad.



Step 02:

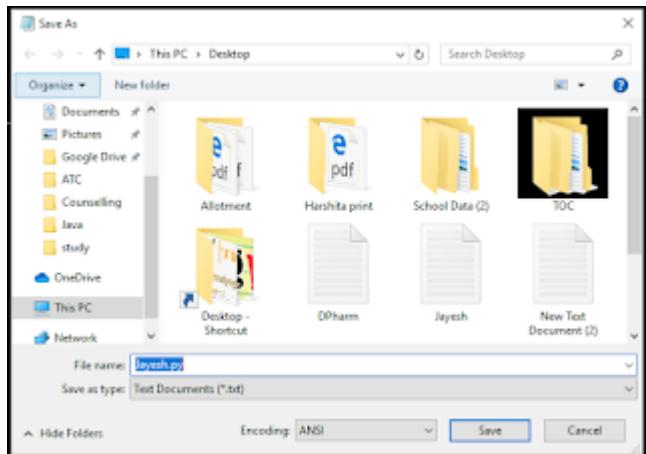
Type your program in text editor.

A screenshot of a Windows Notepad window titled "Jayesh - Notepad" containing Python code. The code defines a function gcd that takes two arguments a and b. It checks if b is 0, and if so, returns a. Otherwise, it recursively calls gcd with b and the remainder of a divided by b. The script then prompts the user for two numbers, calculates their GCD using the gcd function, and prints the result. The code is as follows:

```
def gcd(a,b):
    if(b==0):
        return a
    else:
        return gcd(b,a%b)
a=int(input("Enter first number:"))
b=int(input("Enter second number:"))
GCD=gcd(a,b)
print("GCD is: ")
print(GCD)
```

Step 03:

Save the text file with ".py" extension as "professor.py". py extetion is for Python file.

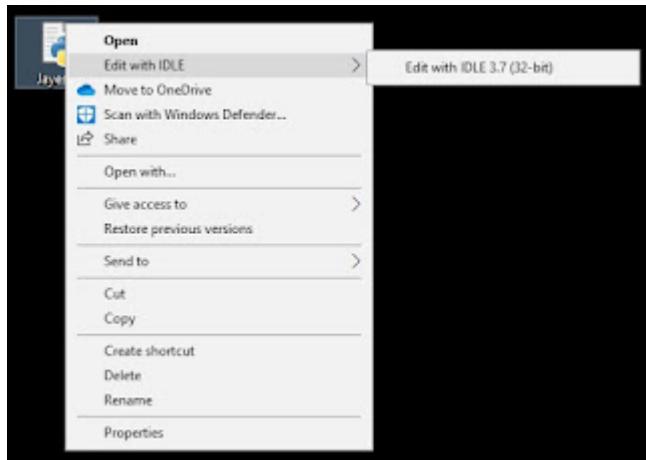


Step 04:

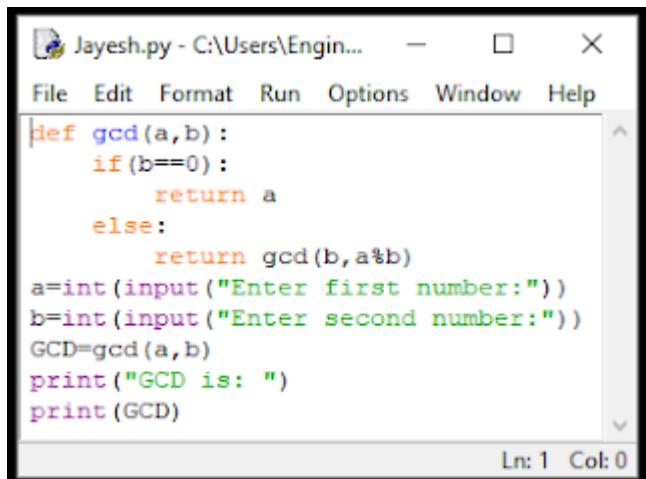
File will look like this. Open it.



Step 05: Do right click and select edit.

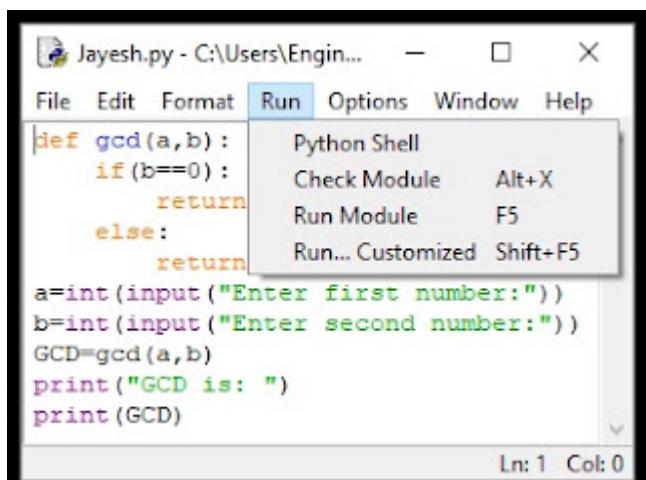


Step 06: Python file will get open as shown.



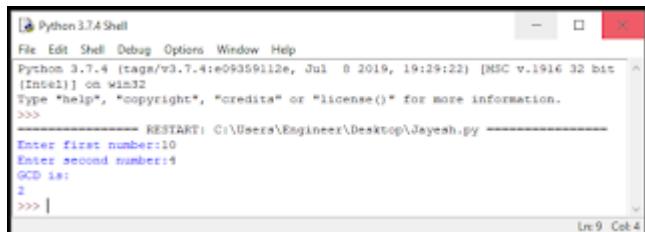
```
def gcd(a,b):  
    if(b==0):  
        return a  
    else:  
        return gcd(b,a%b)  
a=int(input("Enter first number:"))  
b=int(input("Enter second number:"))  
GCD=gcd(a,b)  
print("GCD is: ")  
print(GCD)
```

Step 07: Click on Run to run the file.



```
def gcd(a,b):  
    if(b==0):  
        return a  
    else:  
        return gcd(b,a%b)  
a=int(input("Enter first number:"))  
b=int(input("Enter second number:"))  
GCD=gcd(a,b)  
print("GCD is: ")  
print(GCD)
```

Step 08: The output window will get open.

A screenshot of the Python 3.7.4 Shell window. The title bar says "Python 3.7.4 Shell". The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The main window shows the following text:

```
Python 3.7.4 (tags/v3.7.4:ed08359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
(Intel)] on Win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> RESTART: C:\Users\Engineer\Desktop\Jayesh.py
-----
Enter first number:10
Enter second number:4
GCD is:
2
>>>
```

The status bar at the bottom right shows "Ln: 9 Col: 4".

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6. [Python Program to perform Linear Search](#)
7. [Python Program to perform binary search](#)
8. [Python Program to perform selection sort](#)
9. [Python Program to perform insertion sort](#)
10. [Python program to find first n prime numbers](#)
11. [Python program Merge sort](#)
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