

The screenshot shows a Mac OS X desktop environment with a dark-themed Visual Studio Code (VS Code) window open. The window title bar says "main.c". The menu bar at the top includes "File", "Edit", "Selection", "View", "Go", "Run", "Terminal", "Window", and "Help".

The left sidebar of the VS Code interface shows the "EXPLORER" view with a tree structure of files:

- OPEN EDITORS: main.c (marked with "M")
- MAIN.C: vscode, main.dSYM, #include <stdio.h>, a.out, hello.c, main, main.c (marked with "M"), tempCodeRunnerFile, Untitled-1

The main code editor area displays the following C code:

```
C main.c M X
C main.c > GCD(int, int)
1 #include <stdio.h>
2
3 int GCD(int num1, int num2) {
4     if (num2 == 0)
5         return num1;
6     else
7         return GCD(num2, num1 % num2);
8 }
9
10 int main() {
11     int a, b, result;
12
13     printf("---- GCD Finder Using Recursion ----\n");
14     printf("Enter first number: ");
15     scanf("%d", &a);
16     printf("Enter second number: ");
17     scanf("%d", &b);
18
19     result = GCD(a, b);
20
21     printf("\nThe GCD of %d and %d is: %d\n", a, b, result);
22
23     return 0;
24 }
25
```

The terminal tab at the bottom shows the command-line output of the program's execution:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
● abhaygupta@192 main.c % gcc main.c
● abhaygupta@192 main.c % ./a.out
---- GCD Finder Using Recursion ----
Enter first number: 2
Enter second number: 3
The GCD of 2 and 3 is: 1
abhaygupta@192 main.c %
```

The Mac OS X dock at the bottom contains icons for various applications: Finder, Safari, Mail, Calendar, Reminders, Stocks, News, iBooks, iTunes Store, iBooks Store, App Store, iMessage, FaceTime, and Home.

Experiment G.2

62 #include &lt;stdio.h&gt;

int GCD (int num1, int num2) {  
 if (num2 == 0)  
 return num1;  
 else

return GCD (num2, num1 % num2);

}

int main () {

int a, b, result;

printf ("---GCD finder Using Recursion ---\n");

printf ("Enter first number : ");

scanf ("%d", &amp;a);

printf ("Enter second number : ");

scanf ("%d", &amp;b);

result = GCD (a, b);

printf ("In The GCD of %d &amp; %d is : %d\n", a, b, result);

return 0;

}

Teacher's Signature \_\_\_\_\_