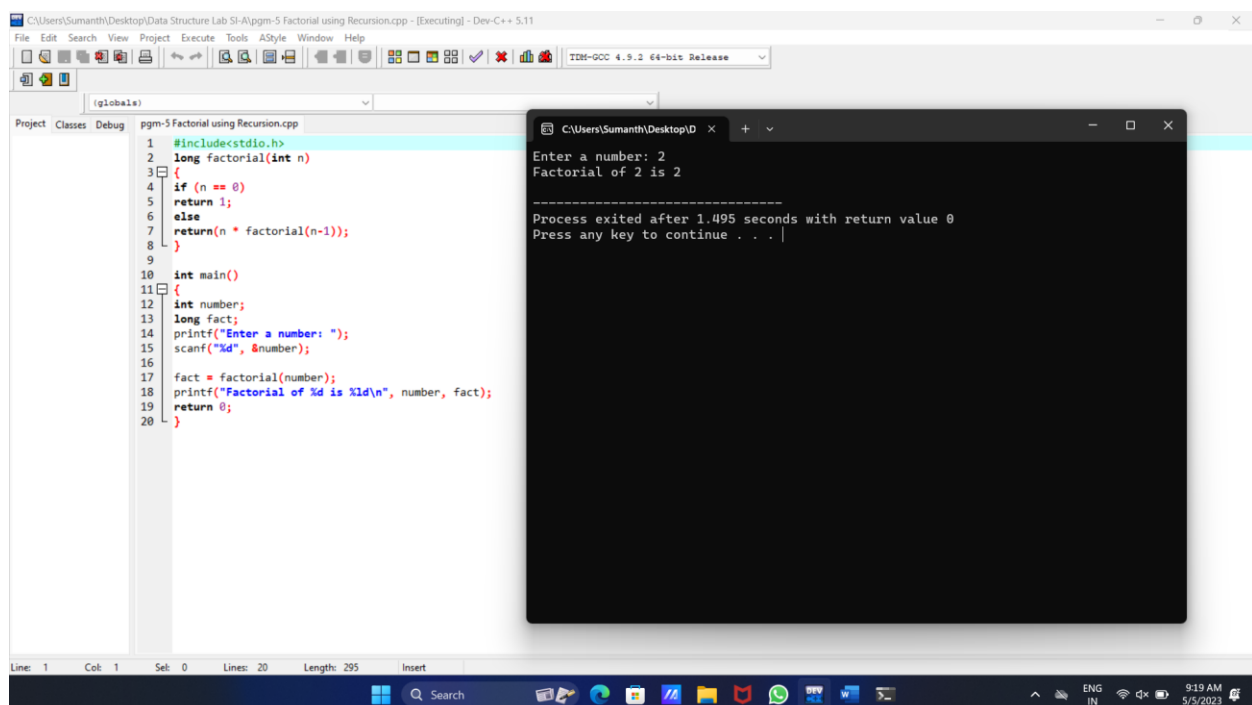


/\* 5. Write a C program to find Factorial of a given number using Recursion \*/

```
#include<stdio.h>

long factorial(int n) {
    if (n == 0)
        return 1;
    else
        return(n * factorial(n-1));
}

int main() {
    int number;
    long fact;
    printf("Enter a number: ");
    scanf("%d", &number);
    fact = factorial(number);
    printf("Factorial of %d is %ld\n", number, fact);
    return 0;
}
```



The screenshot displays a C++ IDE window titled "C:\Users\Sumanth\Desktop\Lab SI-A\pgm-5 Factorial using Recursion.cpp - [Executing] - Dev-C++ 5.11". The code editor shows the same C program as above. A terminal window is open in the foreground, showing the program's execution. The user enters "2" when prompted "Enter a number: ". The program outputs "Factorial of 2 is 2". Below this, it shows "Process exited after 1.495 seconds with return value 0" and "Press any key to continue . . .". The IDE's status bar at the bottom indicates "Line: 1 Col: 1 Sel: 0 Lines: 20 Length: 295 Insert". The Windows taskbar at the very bottom shows the time as 9:19 AM on 5/5/2023.

