

### 3.factorial of a number without using recursion :-

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int main()
```

```
{
```

```
    int n, i;
```

```
    unsigned long factorial = 1;
```

```
    printf("Enter a number to find factorial: ");
```

```
    scanf("%d",&n);
```

```
    if (n < 0)
```

```
        printf("Error");
```

```
    else
```

```
    {
```

```
        for(i=1; i<=n; ++i)
```

```
        {
```

```
            factorial *= i;
```

```
        }
```

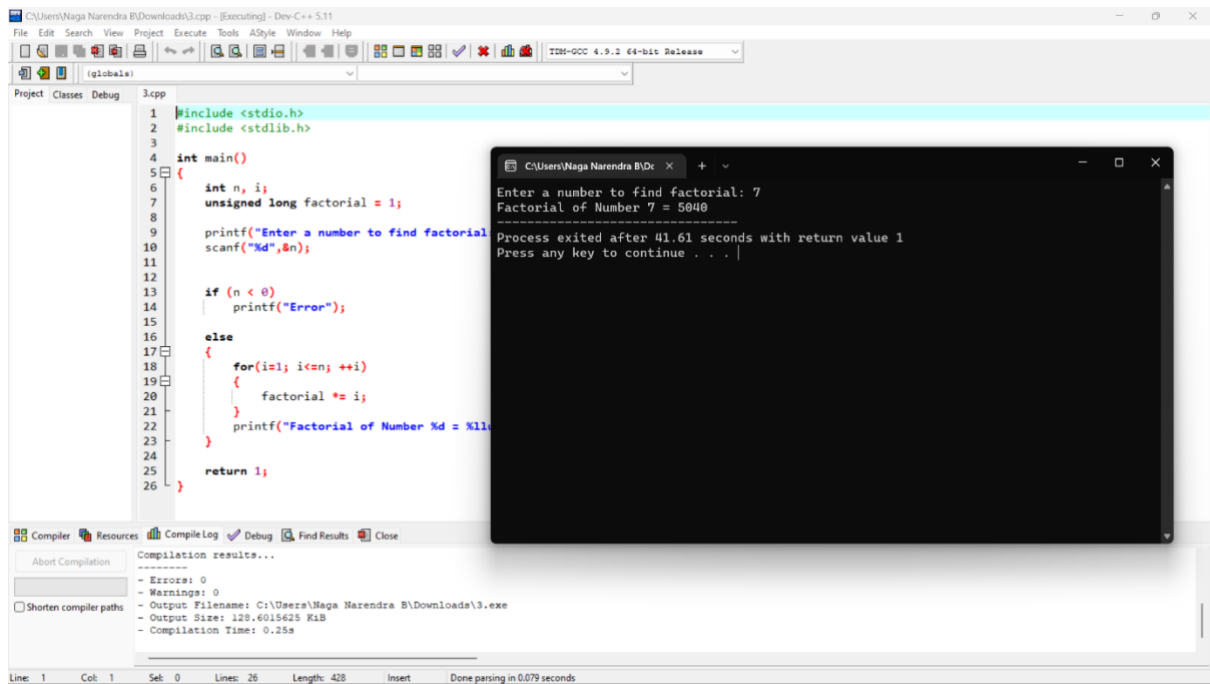
```
        printf("Factorial of Number %d = %llu", n, factorial);
```

```
    }
```

```
    return 1;
```

```
}
```

## Output :-



The screenshot displays a C++ IDE with a source code editor, a compiler window, and a console window. The source code is a program to calculate the factorial of a number. The compiler window shows successful compilation with no errors or warnings. The console window shows the program's execution, where the user enters 7, and the program outputs the factorial of 7 as 5040.

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     int n, i;
7     unsigned long factorial = 1;
8
9     printf("Enter a number to find factorial\n");
10    scanf("%d", &n);
11
12
13    if (n < 0)
14    {
15        printf("Error\n");
16    }
17    else
18    {
19        for(i=1; i<=n; ++i)
20        {
21            factorial *= i;
22        }
23        printf("Factorial of Number %d = %ld\n", n, factorial);
24    }
25    return 1;
26 }
```

Compiler: TDM-GCC 4.9.2 64-bit Release

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\Naga Narendra B\Downloads\3.exe
- Output Size: 128.6015625 Kib
- Compilation Time: 0.25s

Console Output:

```
Enter a number to find factorial: 7
Factorial of Number 7 = 5040
-----
Process exited after 41.61 seconds with return value 1
Press any key to continue . . .
```