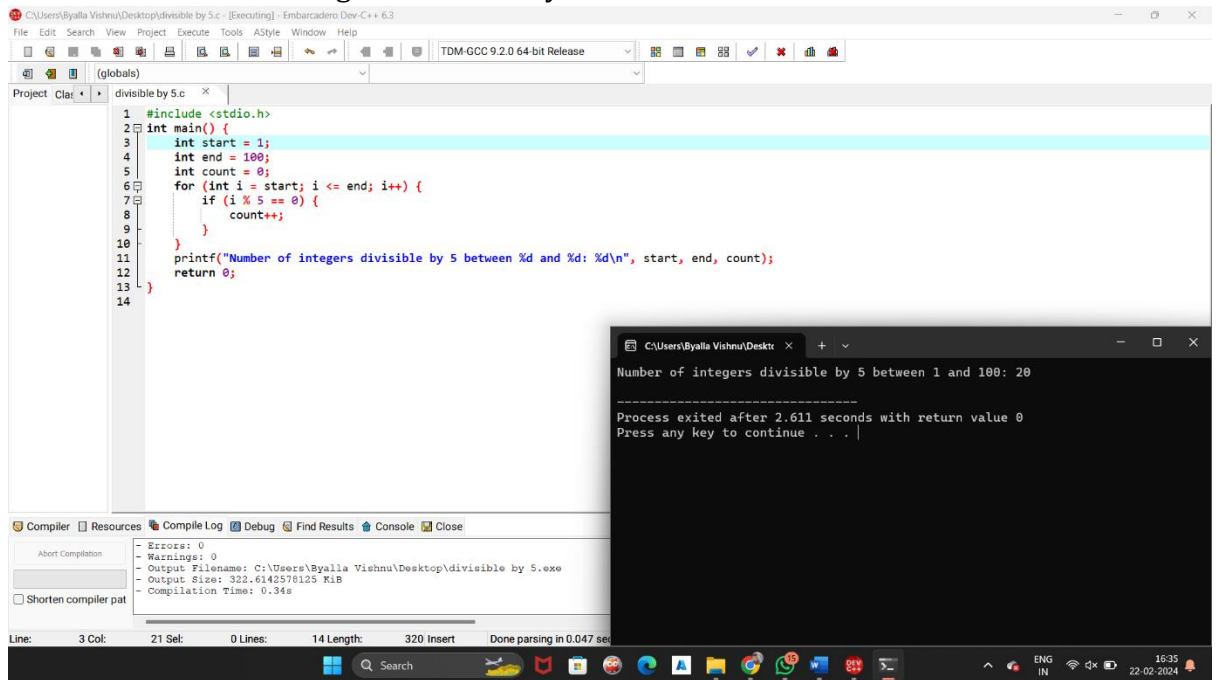


Day 2 test

1. Find the Number of Integers Divisible by 5.

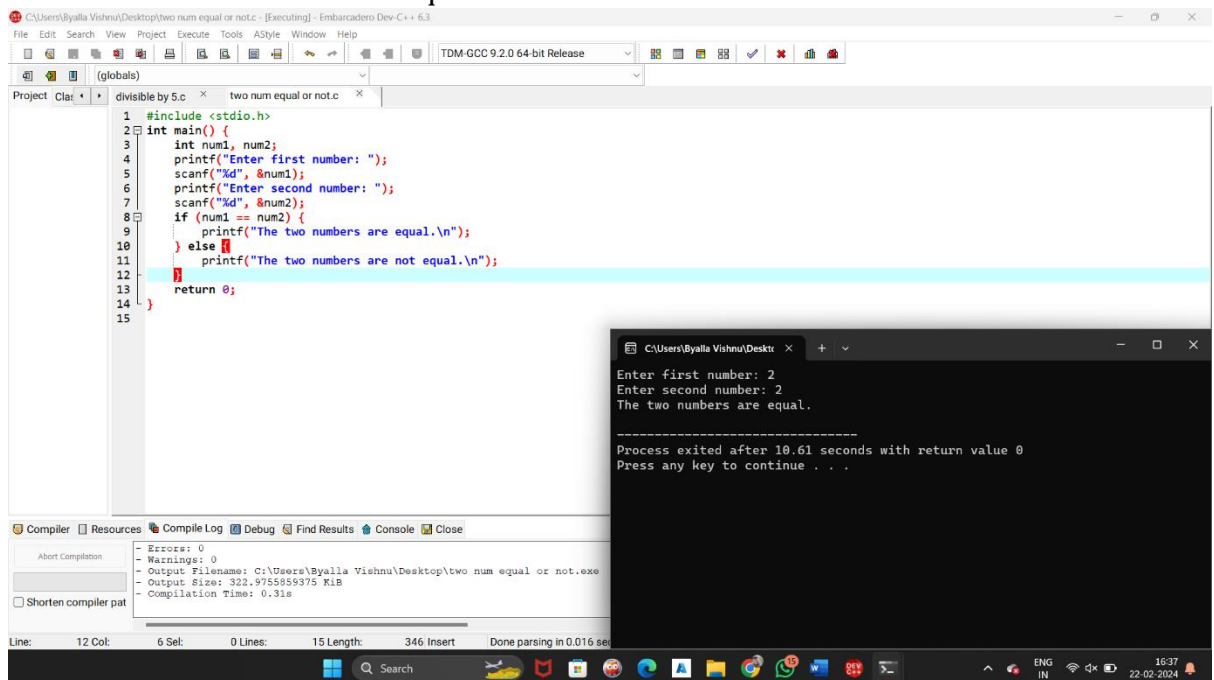


```
1 #include <stdio.h>
2 int main() {
3     int start = 1;
4     int end = 100;
5     int count = 0;
6     for (int i = start; i <= end; i++) {
7         if (i % 5 == 0) {
8             count++;
9         }
10    }
11    printf("Number of integers divisible by 5 between %d and %d: %d\n", start, end, count);
12    return 0;
13 }
14
```

Number of integers divisible by 5 between 1 and 100: 20

Process exited after 2.611 seconds with return value 0
Press any key to continue . . .

2. Check if Two Numbers are Equal



```
1 #include <stdio.h>
2 int main() {
3     int num1, num2;
4     printf("Enter first number: ");
5     scanf("%d", &num1);
6     printf("Enter second number: ");
7     scanf("%d", &num2);
8     if (num1 == num2) {
9         printf("The two numbers are equal.\n");
10    } else {
11        printf("The two numbers are not equal.\n");
12    }
13    return 0;
14 }
15
```

Enter first number: 2
Enter second number: 2
The two numbers are equal.

Process exited after 10.61 seconds with return value 0
Press any key to continue . . .

3.sum of digits

```
1 #include <stdio.h>
2 int main() {
3     int number, sum = 0, digit;
4     printf("Enter a number: ");
5     scanf("%d", &number);
6     while (number != 0) {
7         digit = number % 10;
8         sum += digit;
9         number /= 10;
10    }
11    printf("Sum of digits: %d\n", sum);
12    return 0;
13 }
14
```

Compiler: TDM-GCC 9.2.0 64-bit Release

Compile Log: Done parsing in 0.016 s

Console:

```
Enter a number: 3
Sum of digits: 3

Process exited after 10.49 seconds with return value 0
Press any key to continue . . .
```

4. Increment by 1 to all the Digits of a Given Integer

```
1 #include <stdio.h>
2 int main() {
3     int number, sum = 0, digit;
4     printf("Enter a number: ");
5     scanf("%d", &number);
6     while (number != 0) {
7         digit = number % 10;
8         sum += digit;
9         number /= 10;
10    }
11    printf("Sum of digits: %d\n", sum);
12    return 0;
13 }
14
```

Compiler: TDM-GCC 9.2.0 64-bit Release

Compile Log: Done parsing in 0.016 s

Console:

```
Enter a number: 3
Sum of digits: 3

Process exited after 10.49 seconds with return value 0
Press any key to continue . . .
```

5. Multiplication Table

The screenshot displays the Embarcadero Dev-C++ IDE. The main editor window shows a C program for generating a multiplication table. The code is as follows:

```
1 #include <stdio.h>
2 int main() {
3     int rows, columns;
4     printf("Enter the number of rows: ");
5     scanf("%d", &rows);
6     printf("Enter the number of columns: ");
7     scanf("%d", &columns);
8     for (int i = 1; i <= rows; i++) {
9         for (int j = 1; j <= columns; j++) {
10             printf("%4d", i * j);
11         }
12         printf("\n");
13     }
14     return 0;
15 }
```

The program prompts the user to enter the number of rows and columns. In the execution window, the user has entered 3 for rows and 2 for columns. The output shows a 3x2 multiplication table:

```
Enter the number of rows: 3
Enter the number of columns: 2

-----
1 2
2 4
3 6
-----
Process exited after 13.38 seconds with return value 0
Press any key to continue . . .
```

The bottom status bar of the IDE shows the current cursor position: Line: 12, Col: 23, Sel: 0 Lines, 16 Length, 381 Insert, Done parsing in 0.015 s.