**PF LAB #4 TASK**

**Name :** Muhammad Jawwad

**Section & Roll No. :** BCS 1K-0536

Task 4:

Code:

#include <stdio.h>

int main()

{int score;

printf("Enter Your Score : \n");

scanf("%d", &score);

if(score>=90)

{

printf("A Grade Student");

}

else if(score>=80)

{

printf("B Grade Student");

}

else if(score>=70)

{

printf("C Grade Student");

}

else if(score>=60)

{

printf("D Grade Student");

}

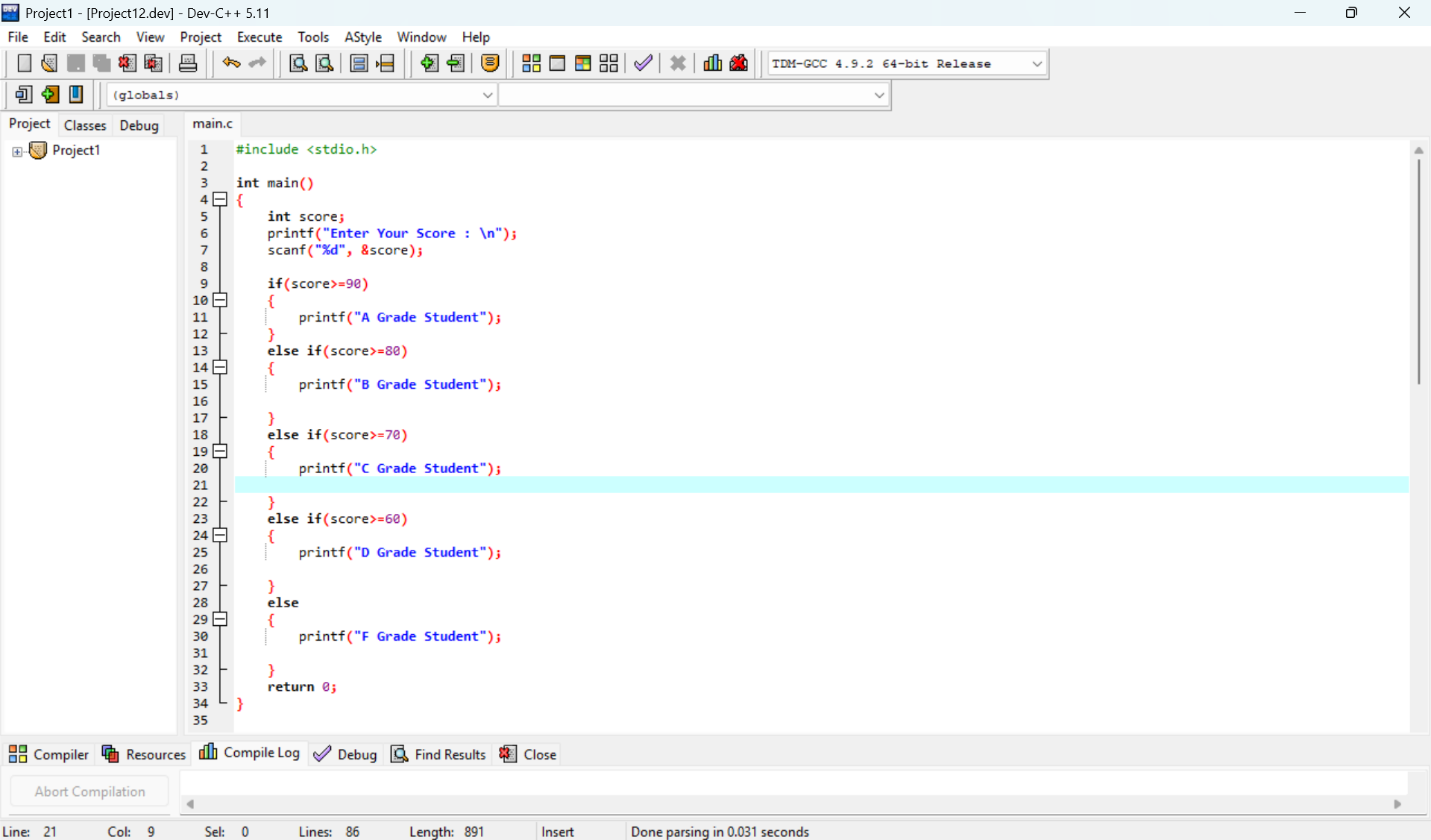
else{

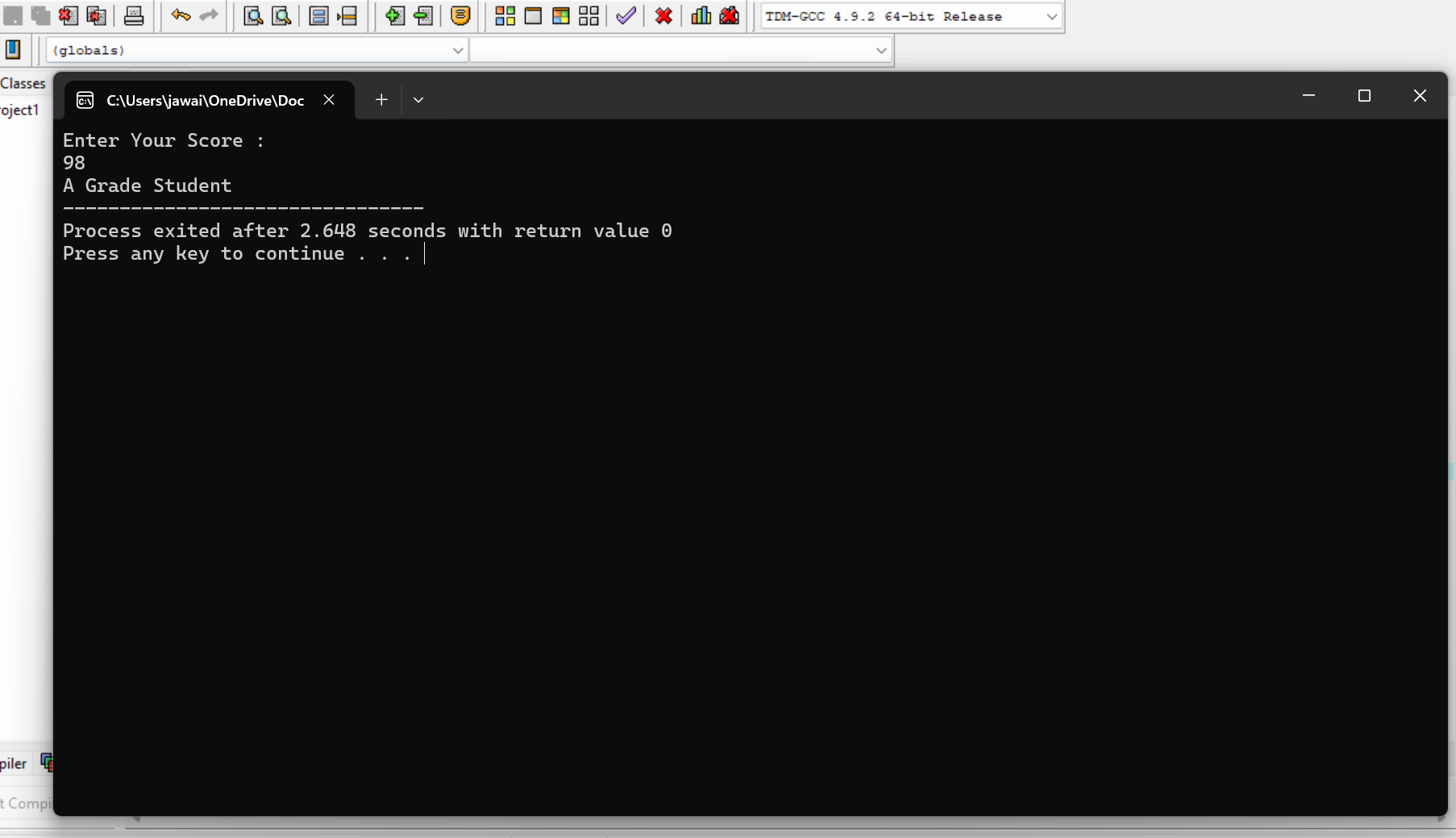
printf("F Grade Student");

}

return 0;

}





Task 5:

Code:

#include<stdio.h>

int main()

{

int Colour;

printf("Traffic Signal Control\n");

printf("Enter a Number (1 for Red, 2 for Yellow, 3 for Green) : \n");

scanf("%d", &Colour);

switch(Colour) {

case 1: printf("Signal is Red = Stop \n");

break;

case 2: printf("Signal is Yellow = Ready \n");

break;

case 3: printf("Signal is Green = Go \n");

break;

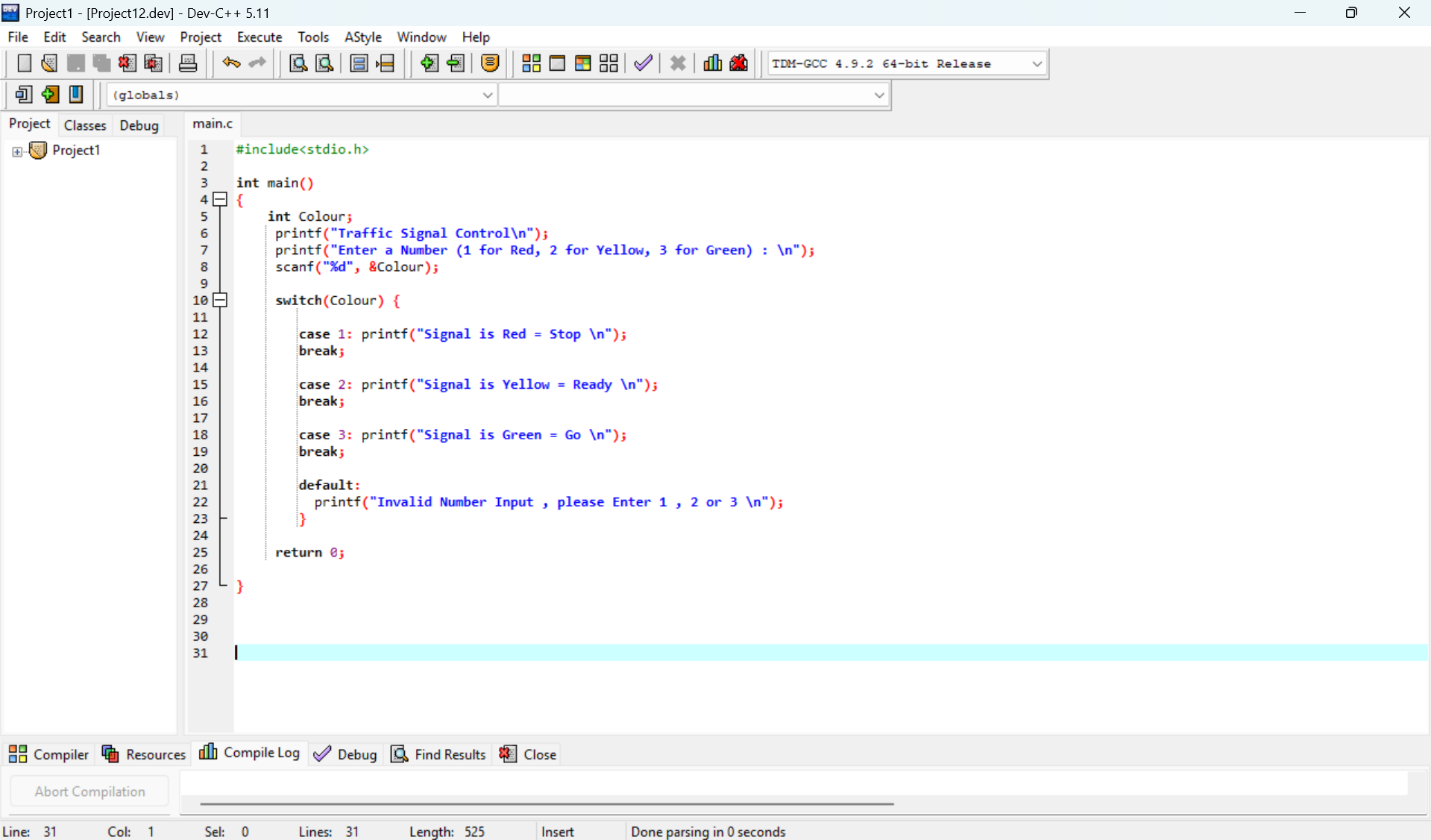
default:

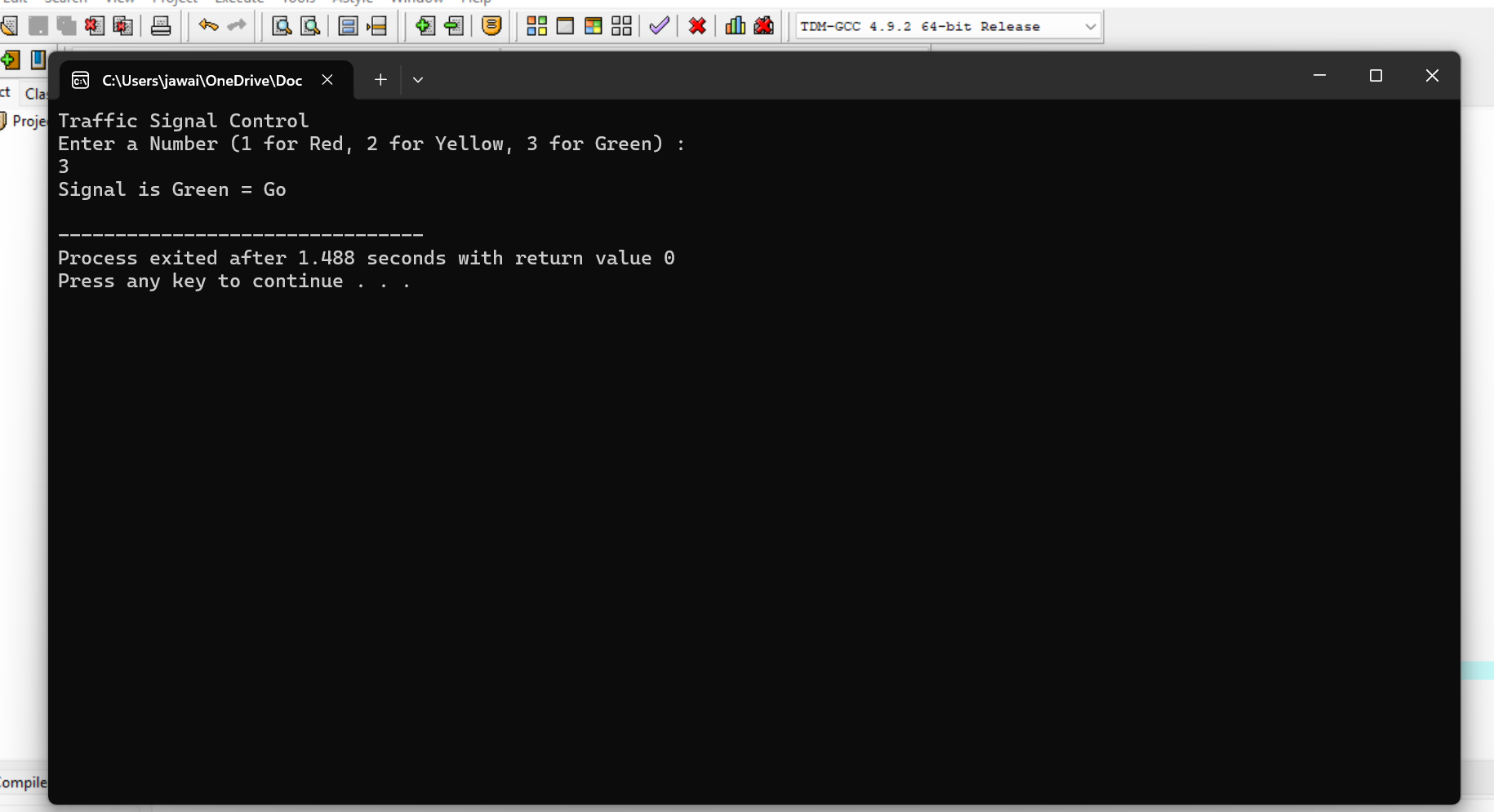
printf("Invalid Number Input , please Enter 1 , 2 or 3 \n");

}

return 0;

}





Task 6:

Code:

#include <stdio.h>

int main() {

float Val1, Val2, result;

char op;

printf("Enter first number: ");

scanf("%f", &Val1);

printf("Enter an operator (+, -, \*, /): ");

scanf(" %c", &op);

printf("Enter second number: ");

scanf("%f", &Val2);

switch (op) {

case '+':

result = Val1 + Val2;

printf("Result: %.2f\n", result);

break;

case '-':

result = Val1 - Val2;

printf("Result: %.2f\n", result);

break;

case '\*':

result = Val1 \* Val2;

printf("Result: %.2f\n", result);

break;

case '/':

if (Val2 != 0)

result = Val1 / Val2;

else { printf("Error! Division by zero.\n");

return 1;

}

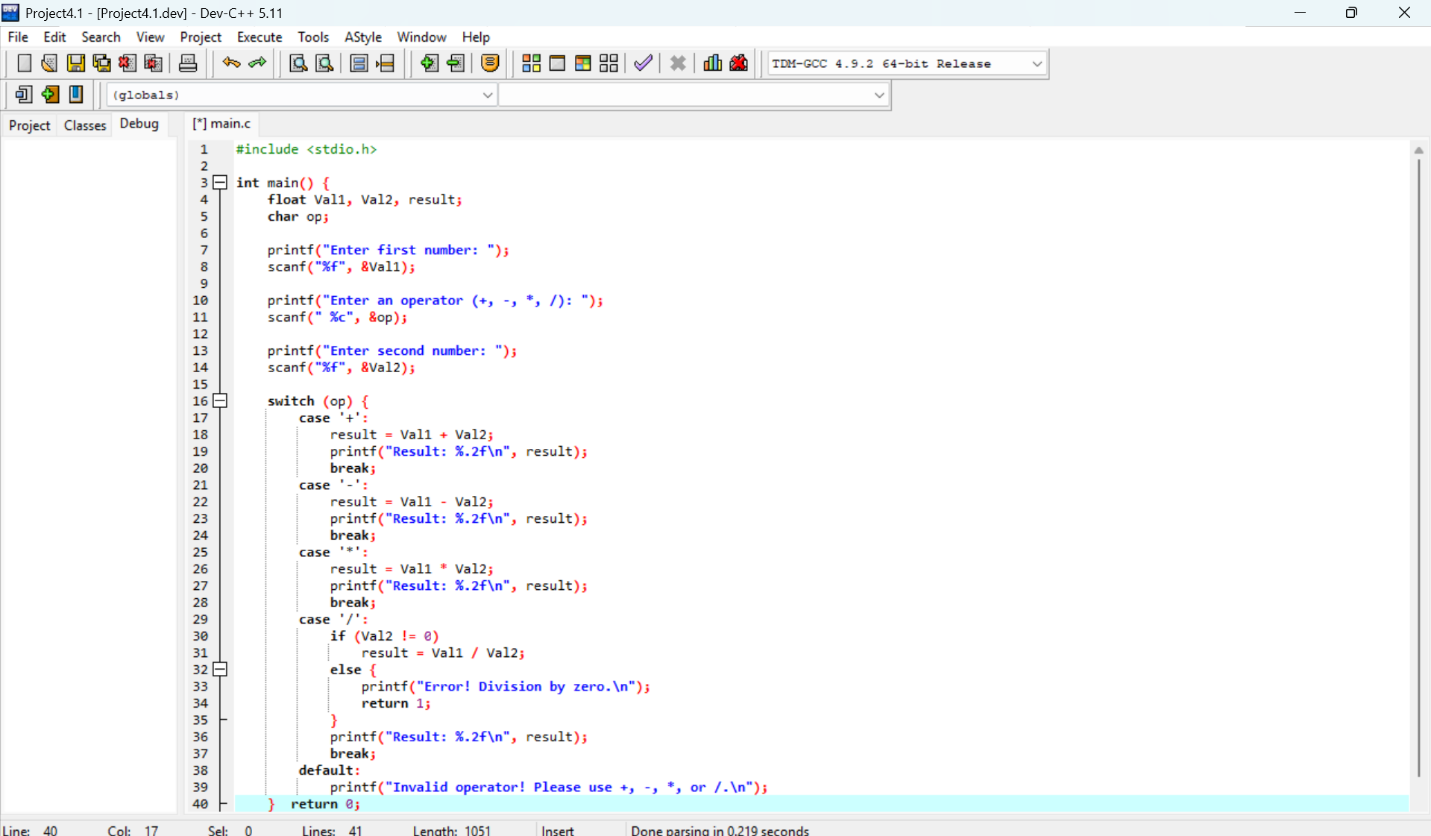
printf("Result: %.2f\n", result);

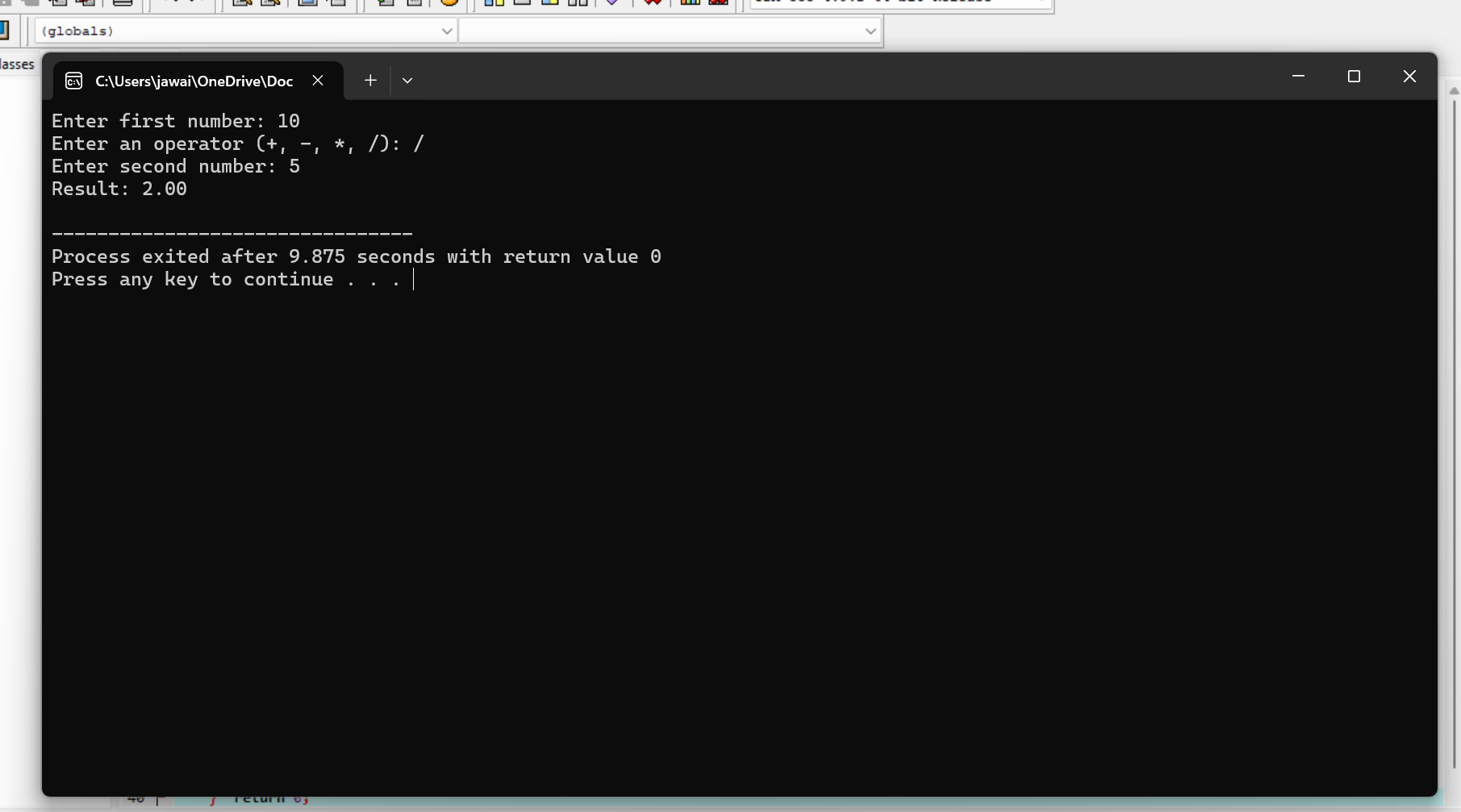
break;

default: printf("Invalid operator! Please use +, -, \*, or /.\n");

} return 0;

}





Task 7:

Code:

#include <stdio.h>

int main()

{

int Year;

printf("Enter a Year: ");

scanf("%d", &Year);

if ((Year % 400 == 0) || (Year % 4 == 0 && Year % 100 != 0)) {

printf("The Given Year %d is a Leap Year\n", Year);

}

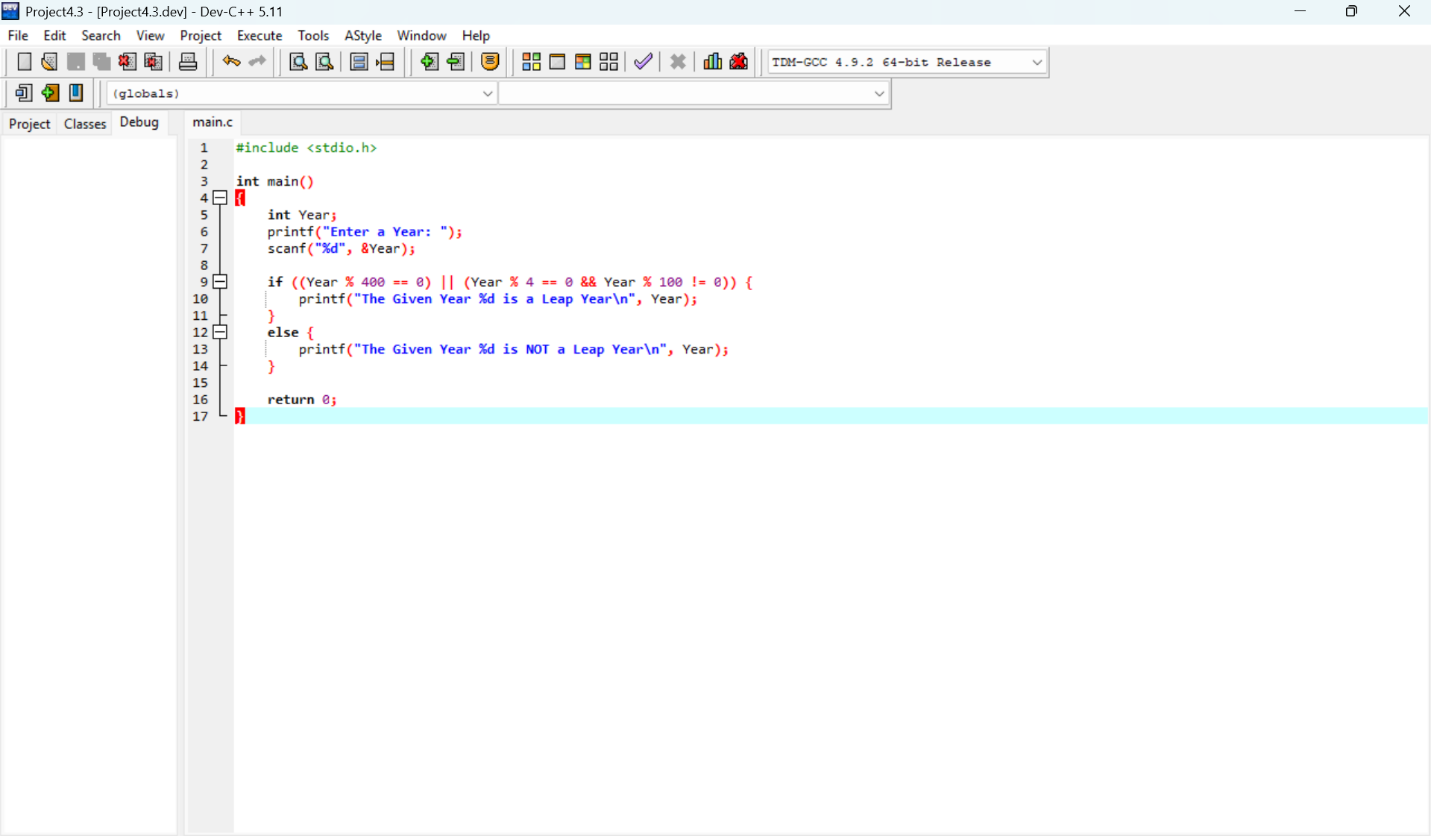
else {

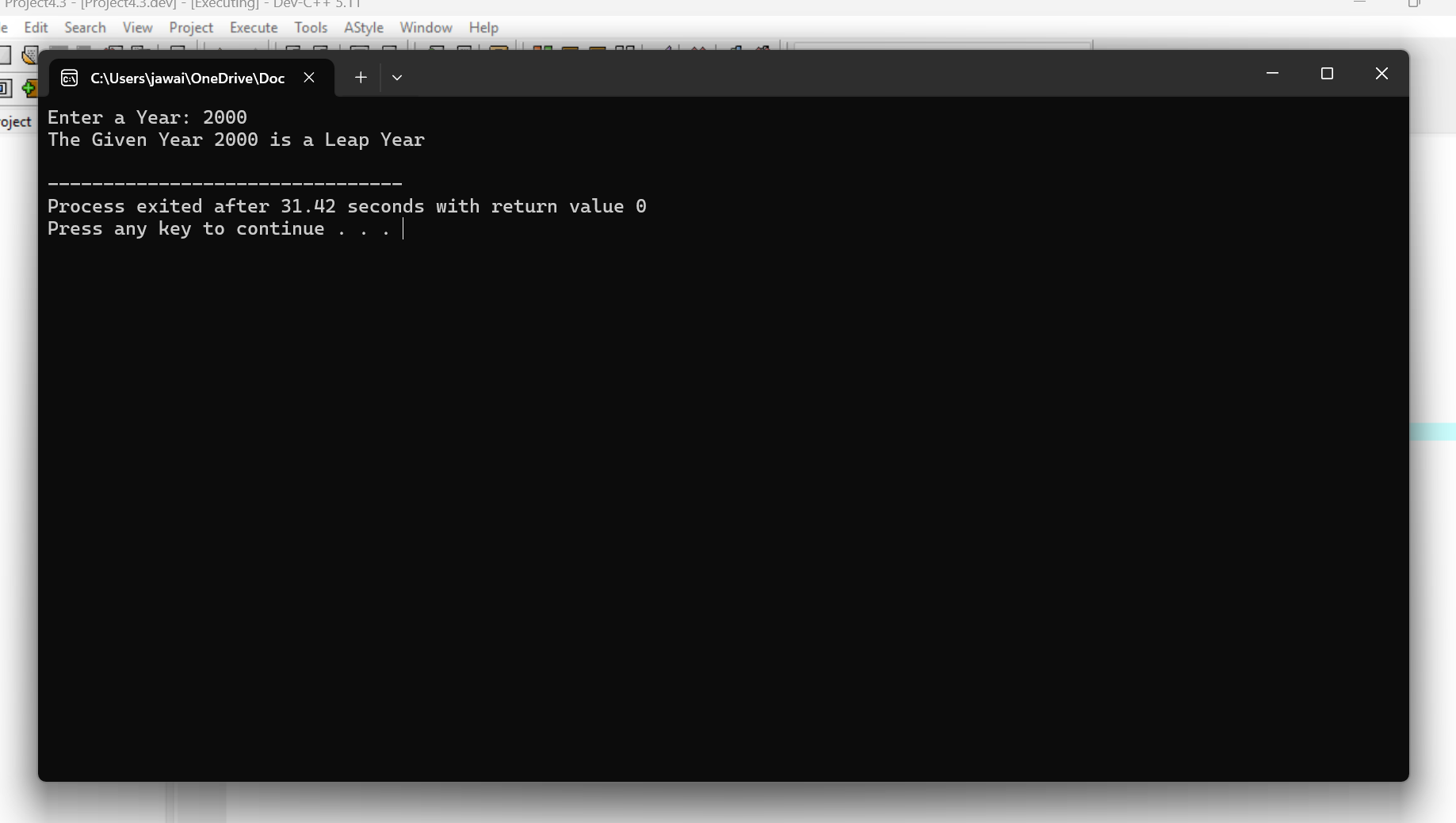
printf("The Given Year %d is NOT a Leap Year\n", Year);

}

return 0;

}





Task 8:

Code:

#include <stdio.h>

int main()

{

float num;

printf("Enter a Number. \n");

scanf("%f", &num);

if(num>0)

{

printf("The Given Number is Positive\n");

}

else if(num<0 )

{

printf("The Given Number is Negative\n");

}

else

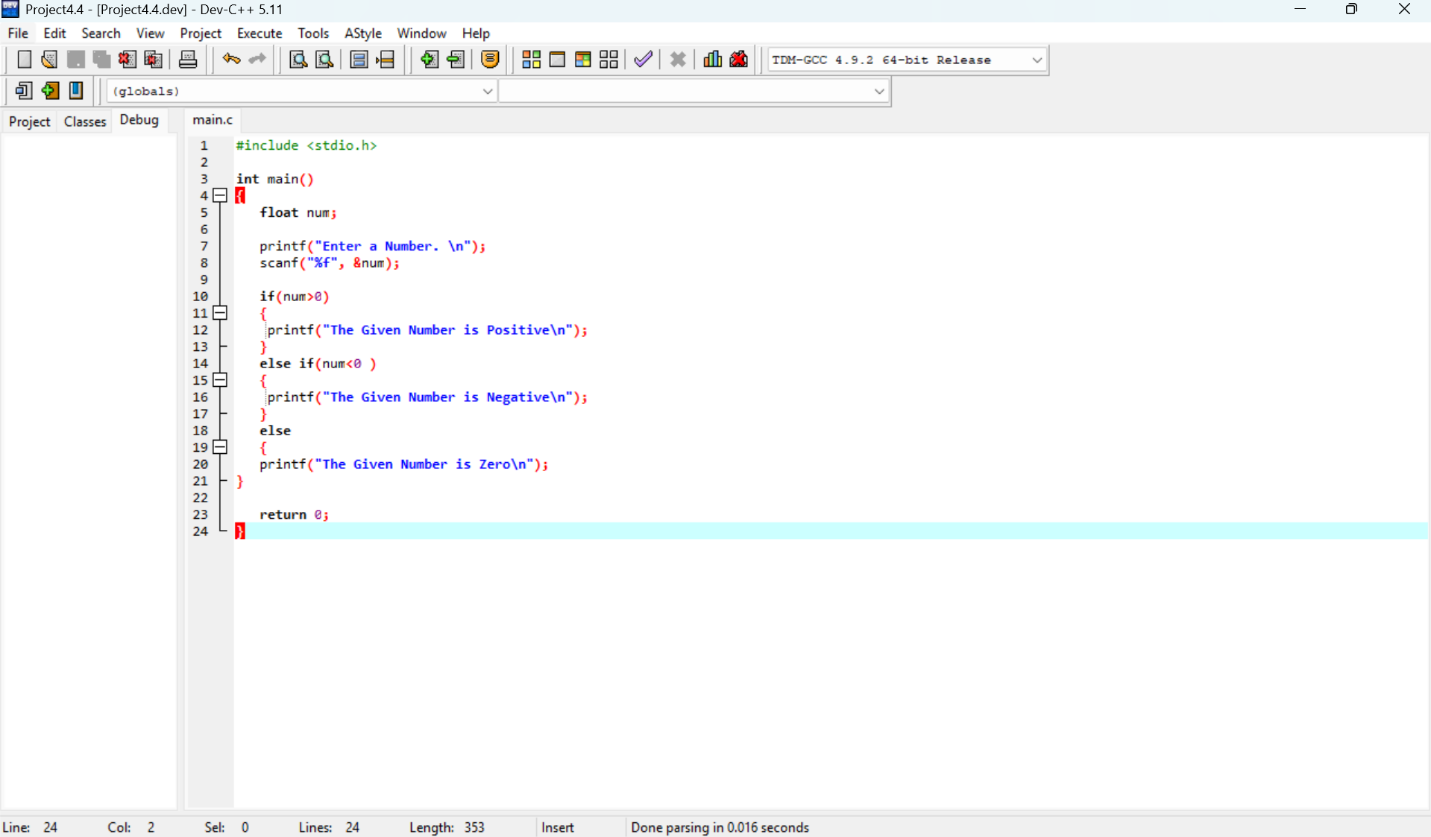
{

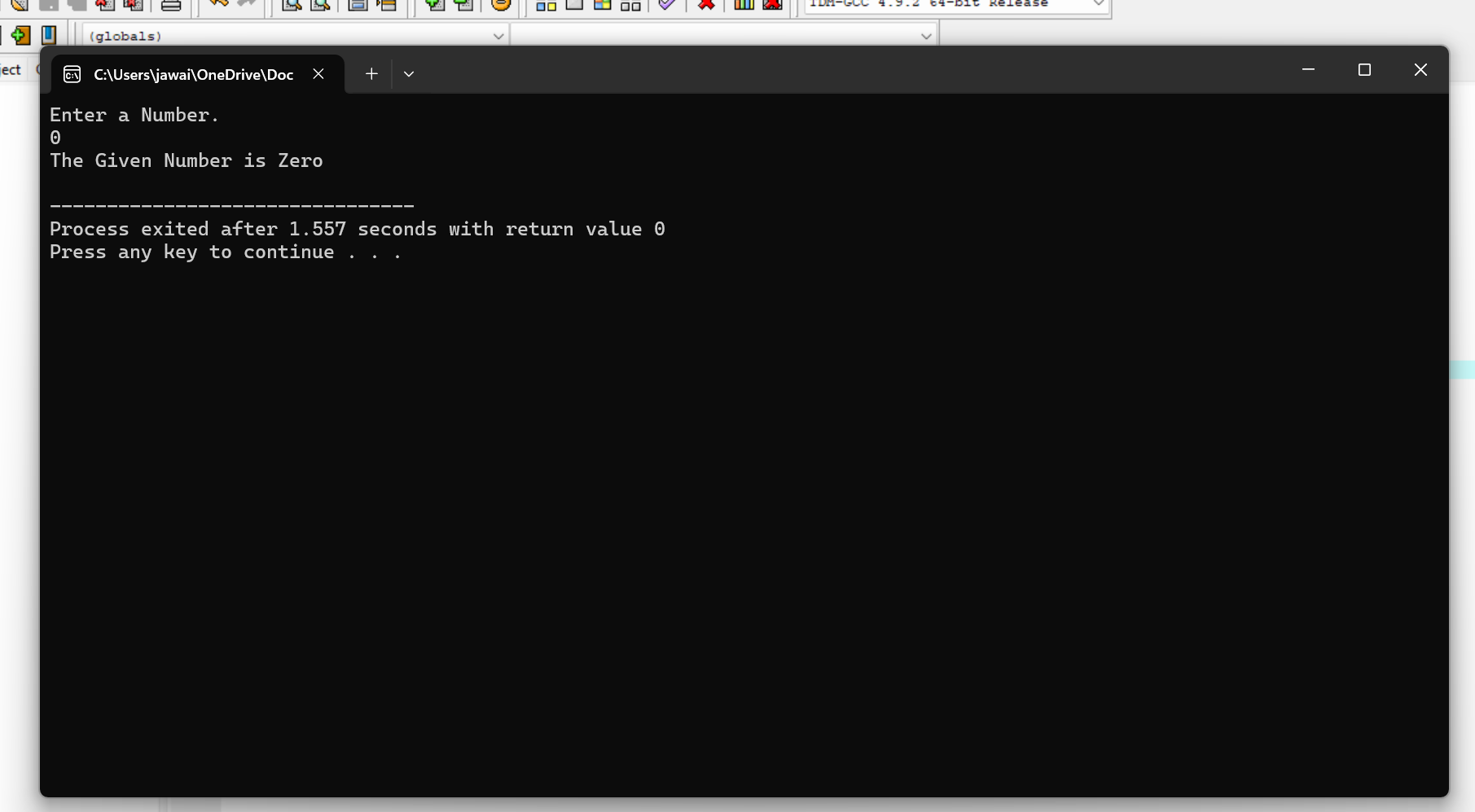
printf("The Given Number is Zero\n");

}

return 0;

}





Task 9:

Code:#include <stdio.h>

// ! 1 = Monday , 2 = Tuesday , 3 = Wednesday , 4 = Thursday , 5 = friday , 6 = saturday , 7 = sunday

int main()

{ int num;

printf("Enter Number(1-7 only)\n");

scanf("%d", &num);

switch(num)

{ case 1:

printf("The Day is Monday\n");

break;

case 2:

printf("The Day is Tuesday\n");

break;

case 3:

printf("The Day is Wednesday\n");

break;

case 4:

printf("The Day is Thursday\n");

break;

case 5:

printf("The Day is Friday\n");

break;

case 6:

printf("The Day is Saturday\n");

break;

case 7:

printf("The Day is Sunday\n");

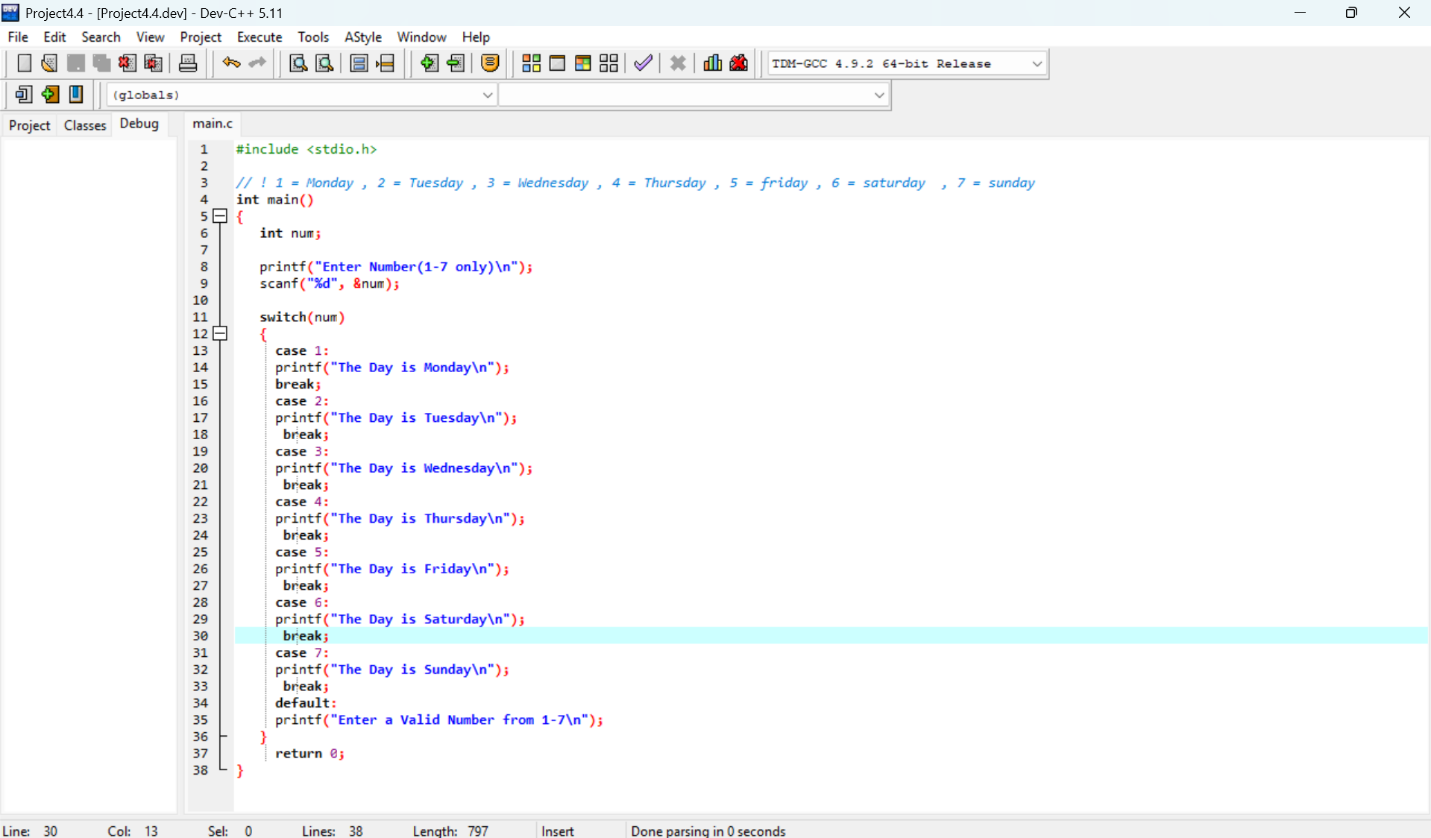
break;

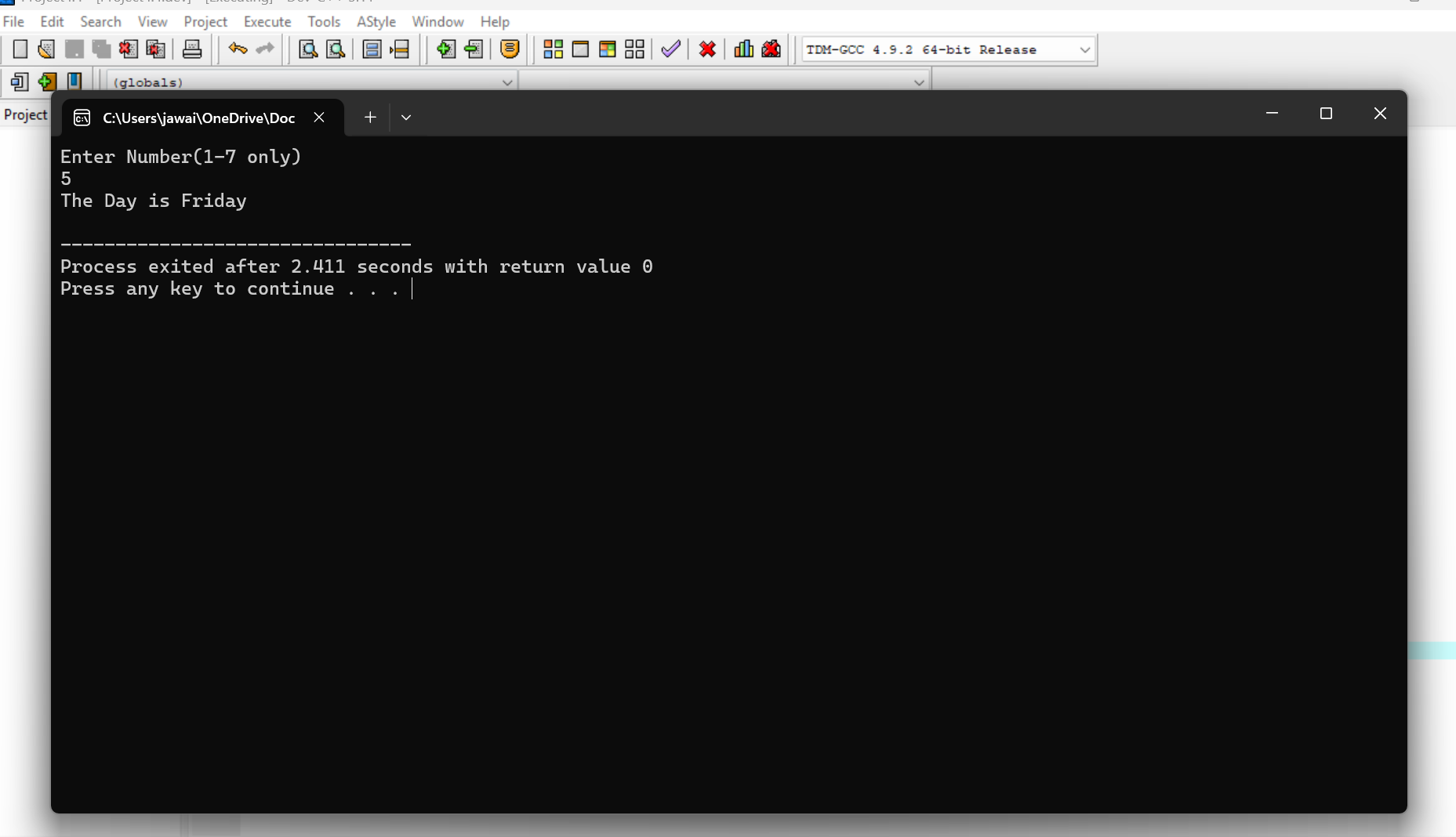
default:

printf("Enter a Valid Number from 1-7\n"); }

return 0;

}





Task 10:

Code:

#include <stdio.h>

// Password Validator

int main()

{

int Password=12345;

int Enter\_Password;

printf("Enter Password\n");

scanf("%d", &Enter\_Password);

if(Password == Enter\_Password)

{

printf("Access Granted\n");

}

else

{

printf("Invalid Password\n");

}

return 0;

}

