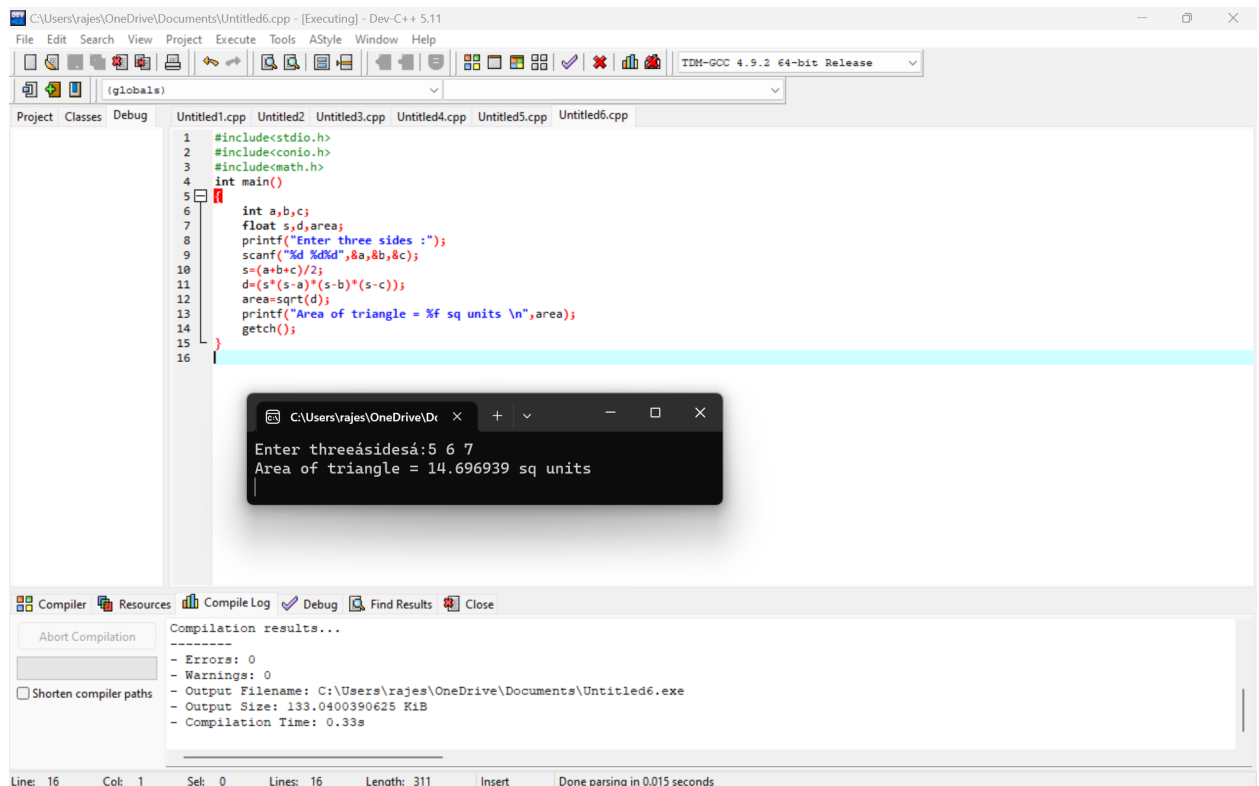


1.ARITHMETIC OPERATION IN C USINGDYNAMIC INTIALIZATION



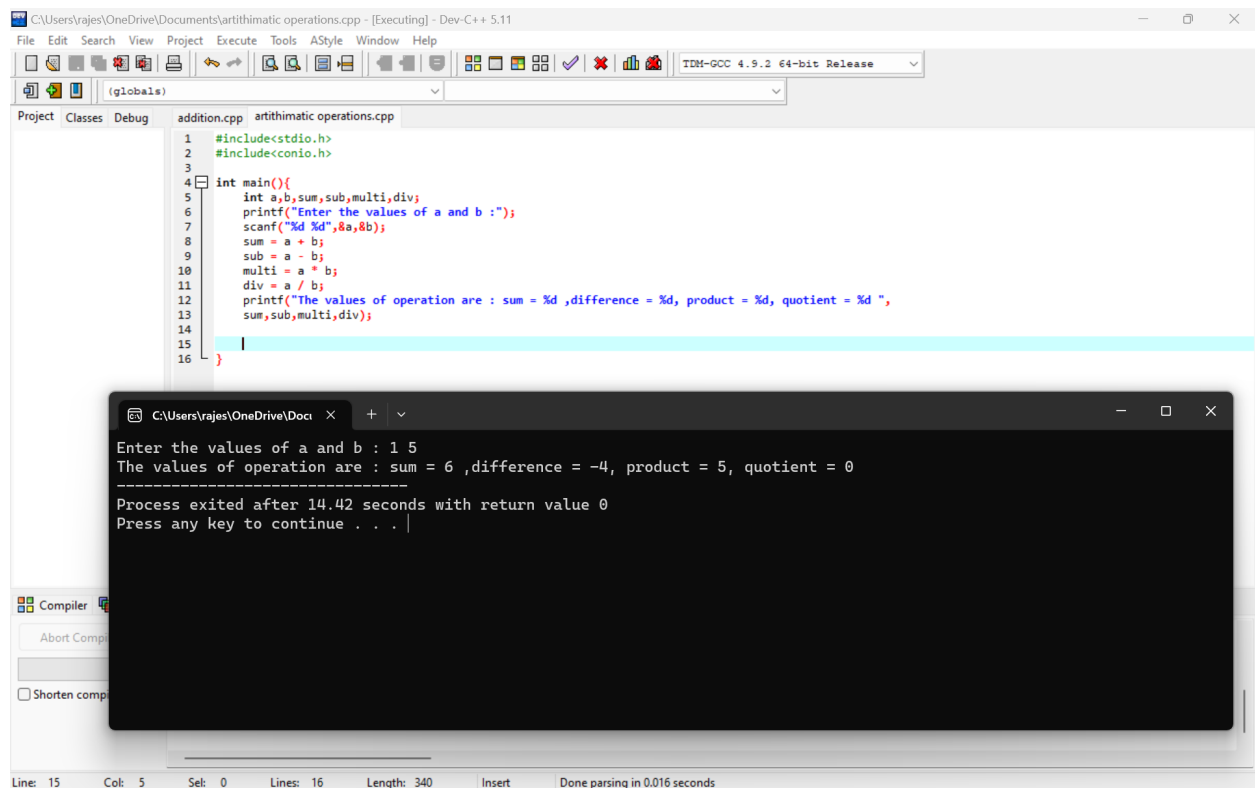
```
1 #include<stdio.h>
2 #include<conio.h>
3 #include<math.h>
4 int main()
5 {
6     int a,b,c;
7     float s,d,area;
8     printf("Enter three sides :");
9     scanf("%d %d %d",&a,&b,&c);
10    s=(a+b+c)/2;
11    d=(s*(s-a)*(s-b)*(s-c));
12    area=sqrt(d);
13    printf("Area of triangle = %f sq units \n",area);
14    getch();
15 }
16
```

Enter three sides: 5 6 7
Area of triangle = 14.696939 sq units

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\rajes\OneDrive\Documents\Untitled6.exe
- Output Size: 133.0400390625 KiB
- Compilation Time: 0.33s

2.ARITHMETIC OPERATIONS IN C USING DYNAMIC INITIALIZATION

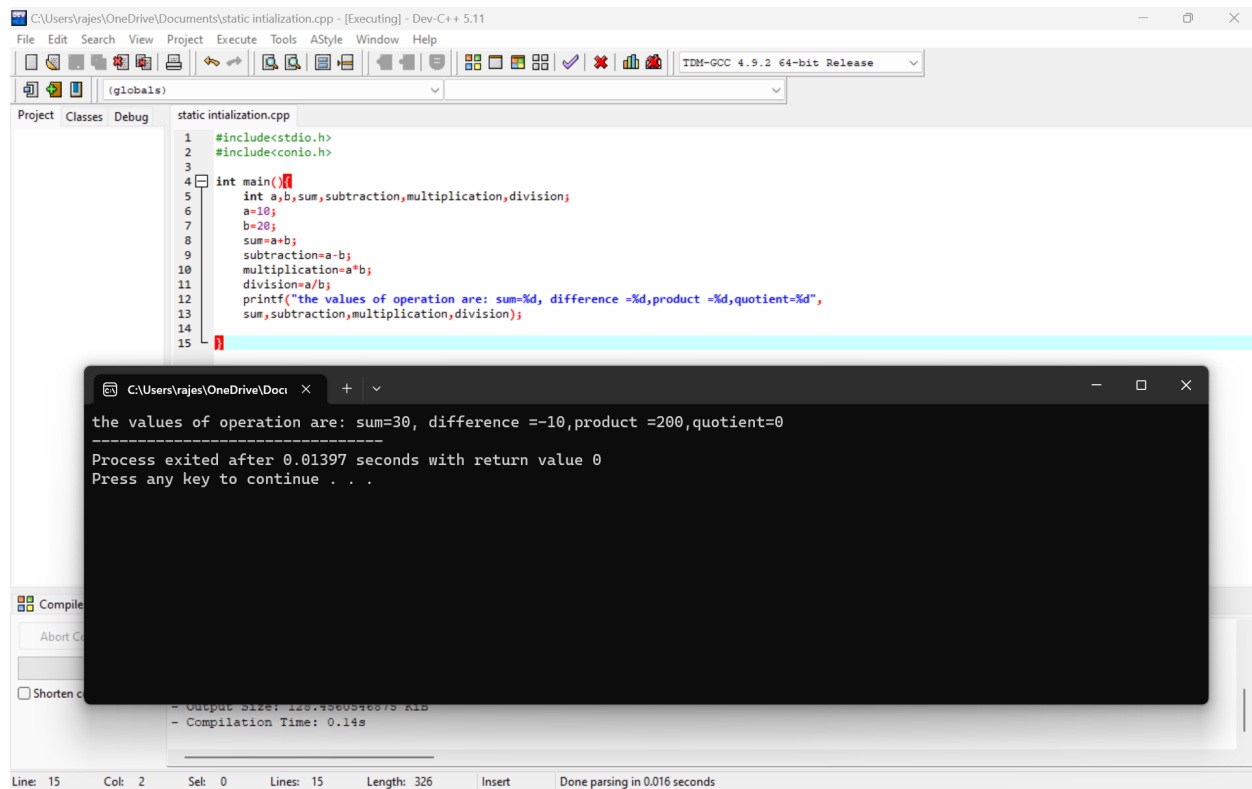


```
1 #include<stdio.h>
2 #include<conio.h>
3
4 int main(){
5     int a,b,sum,sub,multi,div;
6     printf("Enter the values of a and b :");
7     scanf("%d %d",&a,&b);
8     sum = a + b;
9     sub = a - b;
10    multi = a * b;
11    div = a / b;
12    printf("The values of operation are : sum = %d ,difference = %d, product = %d, quotient = %d ",
13    sum,sub,multi,div);
14
15 }
16
```

Enter the values of a and b : 1 5
The values of operation are : sum = 6 ,difference = -4, product = 5, quotient = 0

Process exited after 14.42 seconds with return value 0
Press any key to continue . . .

3.ARITHMETIC OPERATIONS IN C USING TATIC INTILIZATION



The screenshot shows the Dev-C++ IDE with a C program named 'static initialization.cpp'. The program includes `<stdio.h>` and `<conio.h>`. The `main` function declares variables `a, b, sum, subtraction, multiplication, division`. It assigns `a=10` and `b=20`, then calculates `sum=a+b`, `subtraction=a-b`, `multiplication=a*b`, and `division=a/b`. The program prints the results using `printf`. The output window shows the execution results: 'the values of operation are: sum=30, difference =-10,product =200,quotient=0'. The process exited after 0.01397 seconds with return value 0.

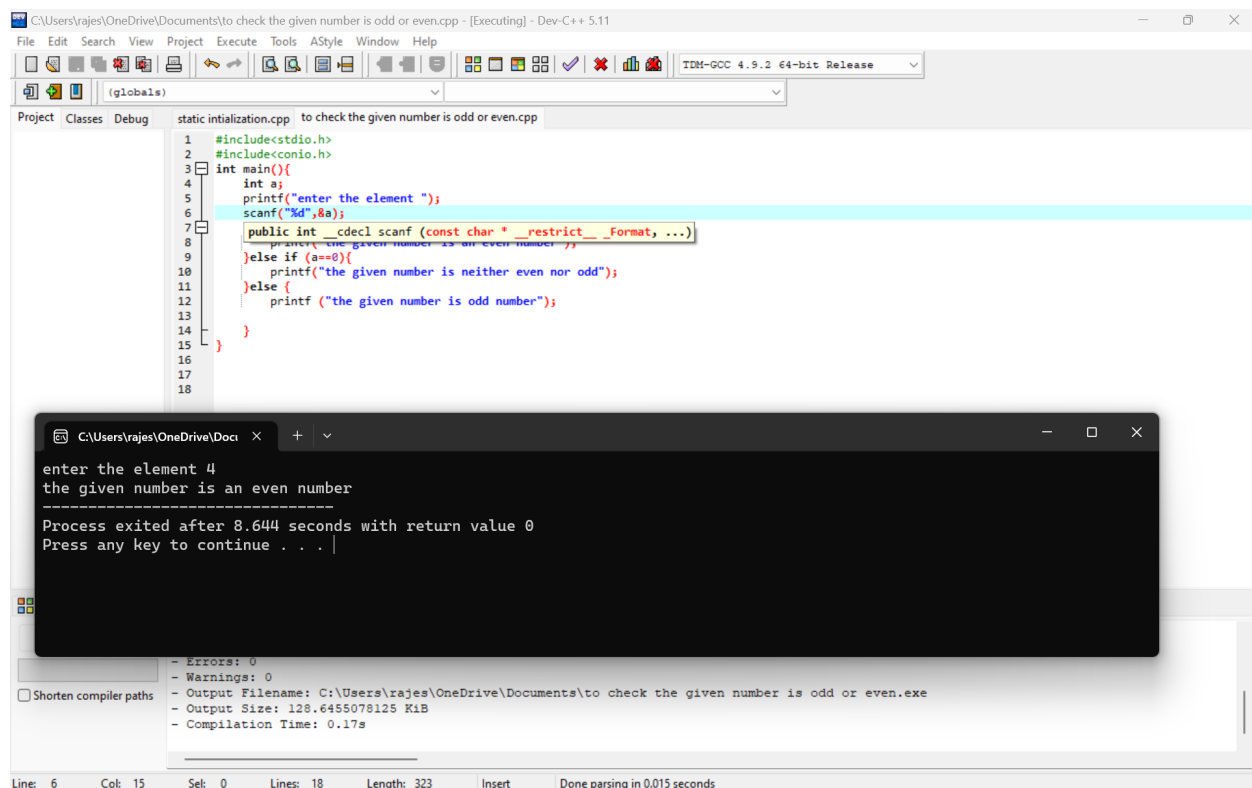
```
1 #include<stdio.h>
2 #include<conio.h>
3
4 int main()
5 {
6     int a,b,sum,subtraction,multiplication,division;
7     a=10;
8     b=20;
9     sum=a+b;
10    subtraction=a-b;
11    multiplication=a*b;
12    division=a/b;
13    printf("the values of operation are: sum=%d, difference =%d,product =%d,quotient=%d",
14           sum,subtraction,multiplication,division);
15 }
```

the values of operation are: sum=30, difference =-10,product =200,quotient=0

Process exited after 0.01397 seconds with return value 0

Press any key to continue . . .

4.C PROGRAM TO CHECK THE GIVEN NUMBER IS ODD ARE EVEN



The screenshot shows the Dev-C++ IDE with a C program named 'to check the given number is odd or even.cpp'. The program includes `<stdio.h>` and `<conio.h>`. The `main` function declares a variable `a`, prompts the user to 'enter the element', and reads the input using `scanf`. It then checks if the number is even (`a%2==0`) or odd (`a%2!=0`) and prints the result. The output window shows the execution results: 'enter the element 4', 'the given number is an even number'. The process exited after 8.644 seconds with return value 0.

```
1 #include<stdio.h>
2 #include<conio.h>
3 int main()
4 {
5     int a;
6     printf("enter the element ");
7     scanf("%d",&a);
8     if(a%2==0)
9     {
10        printf("the given number is an even number");
11    }
12    else {
13        printf ("the given number is odd number");
14    }
15 }
```

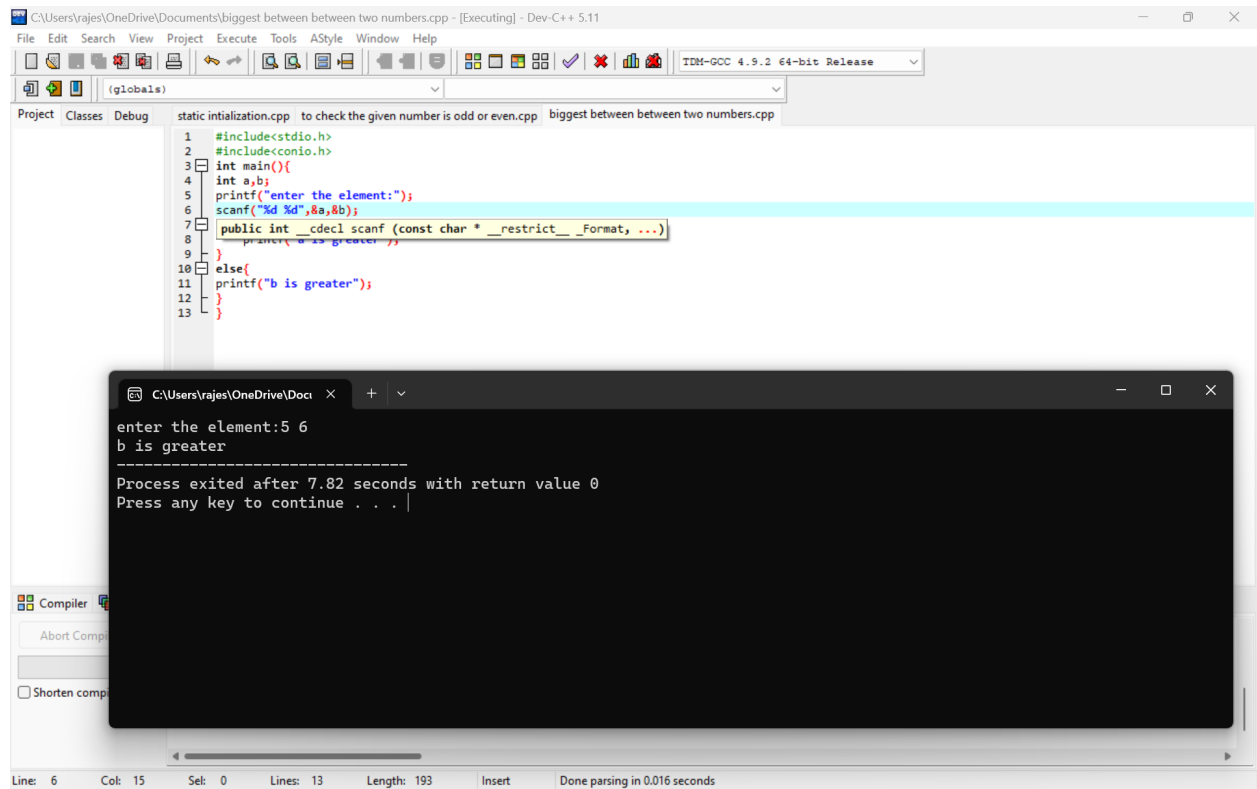
enter the element 4

the given number is an even number

Process exited after 8.644 seconds with return value 0

Press any key to continue . . .

5.CHECKING BIGGER VELUE BETWEEN TWO VALUES



```
1 #include<stdio.h>
2 #include<conio.h>
3 int main(){
4     int a,b;
5     printf("enter the element:");
6     scanf("%d %d",&a,&b);
7     public int __cdecl scanf (const char * __restrict __Format, ...)
8     printf("a is greater");
9 }
10 else{
11     printf("b is greater");
12 }
13 }
```

```
enter the element:5 6
b is greater
-----
Process exited after 7.82 seconds with return value 0
Press any key to continue . . .
```

6.PRINT NUMBERS FROM 1 TO 10

```
1 #include <stdio.h>
2 #include <conio.h>
3 int main ()
4 {
5     int i,n;
6     n=10;
7     for (i=1;i<=n;i++){
8         printf("%d\n",i);
9     }
10 }
```

Process exited after 0.02752 seconds with return value 0
Press any key to continue . . .

7.

PRINT NUMBERS FROM 10 TO 1

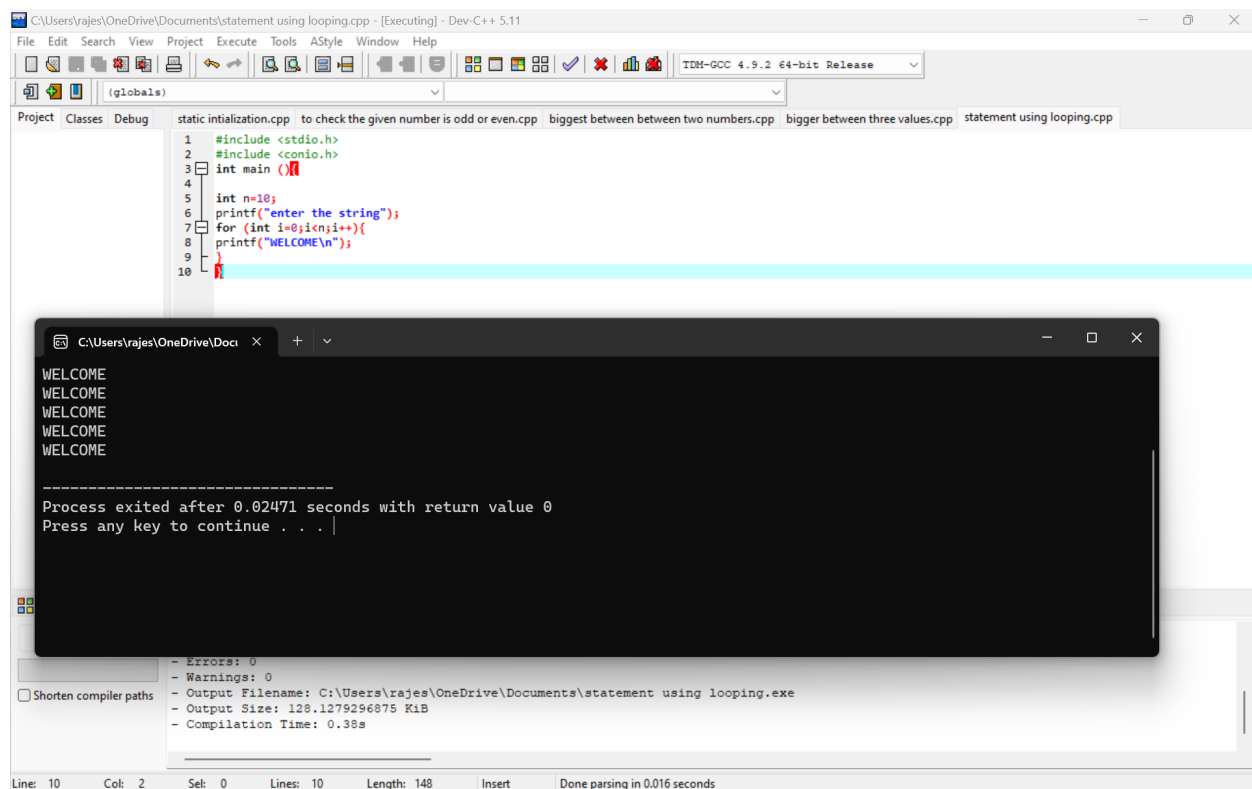
```
1 #include <stdio.h>
2 #include <conio.h>
3
4 int main(){
5
6     int i;
7     for (i=10;i>0;i--){
8         printf("%d\n",i);
9     }
10 }
```

Process exited after 0.02352 seconds with return value 0
Press any key to continue . . .

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\rajes\OneDrive\Documents\numbers from 10 to 1.exe
- Output Size: 127.9560546875 KiB
- Compilation Time: 0.38s

Line: 8 Col: 11 Sel: 0 Lines: 10 Length: 117 Insert Done parsing in 0.032 seconds

8. PRINT STATEMENT “WELCOME” USING LOOPING



The screenshot shows a C++ IDE with the following code in `statement using looping.cpp`:

```
1 #include <stdio.h>
2 #include <conio.h>
3 int main ()
4 {
5     int n=10;
6     printf("enter the string");
7     for (int i=0;i<n;i++){
8         printf("WELCOME\n");
9     }
10 }
```

The output window displays the following text:

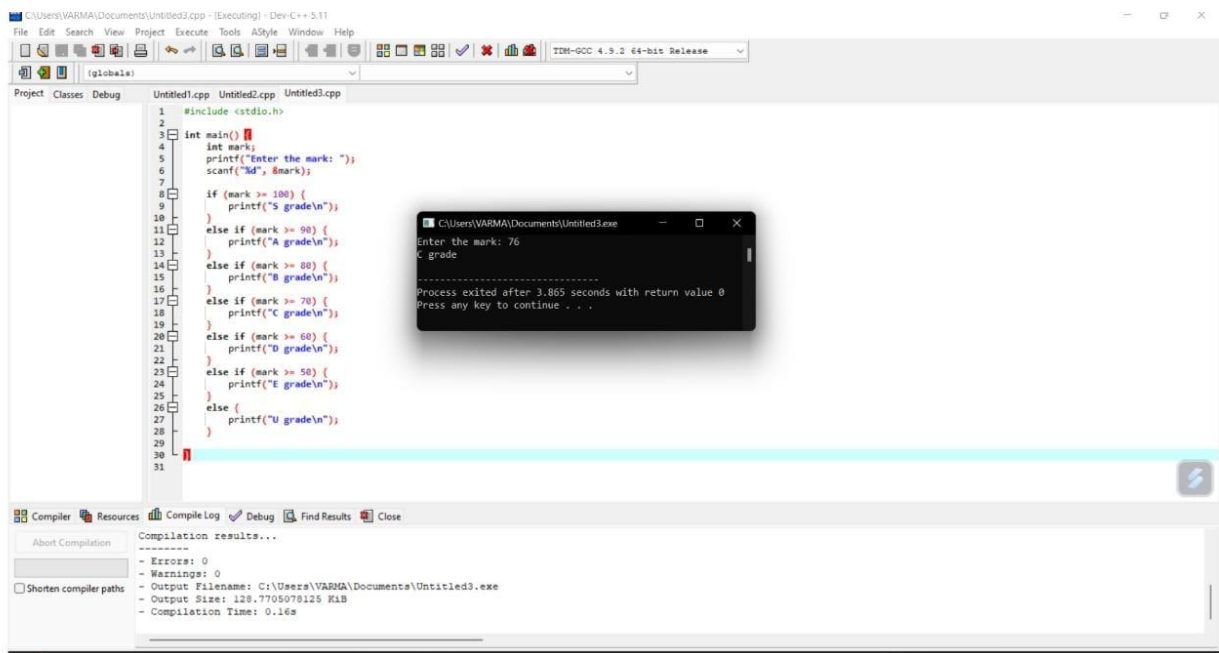
```
WELCOME
WELCOME
WELCOME
WELCOME
WELCOME

Process exited after 0.02471 seconds with return value 0
Press any key to continue . . .
```

The compiler output at the bottom shows:

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\rajes\OneDrive\Documents\statement using looping.exe
- Output Size: 128.1279296875 KiB
- Compilation Time: 0.38s

9.MARKS AND GRADES IN C USING CONDITION STATEMENTS



The screenshot shows a C++ IDE with the following code in `Untitled3.cpp`:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int mark;
6     printf("Enter the mark: ");
7     scanf("%d", &mark);
8
9     if (mark >= 100) {
10         printf("S grade\n");
11     }
12     else if (mark >= 90) {
13         printf("A grade\n");
14     }
15     else if (mark >= 80) {
16         printf("B grade\n");
17     }
18     else if (mark >= 70) {
19         printf("C grade\n");
20     }
21     else if (mark >= 60) {
22         printf("D grade\n");
23     }
24     else if (mark >= 50) {
25         printf("E grade\n");
26     }
27     else {
28         printf("U grade\n");
29     }
30 }
31
```

The output window displays the following text:

```
Enter the mark: 76
C grade

Process exited after 3.865 seconds with return value 0
Press any key to continue . . .
```

The compiler output at the bottom shows:

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled3.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.16s

10.BIGGER BETWEEN TWO VALUES

