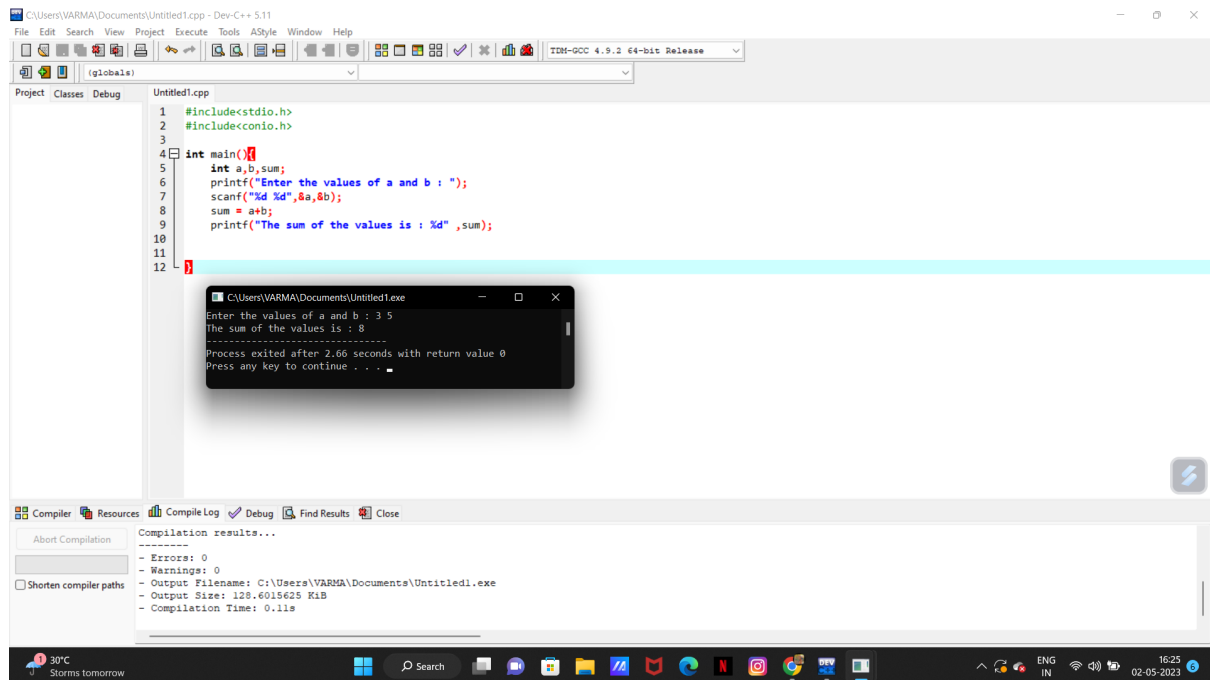


1.ARITHMETIC OPERATION IN C USING DYNAMIC INITIALIZATION



The screenshot shows the Dev-C++ IDE with a C program for addition. The code is as follows:

```
1 #include<stdio.h>
2 #include<conio.h>
3
4 int main()
5 {
6     int a,b,sum;
7     printf("Enter the values of a and b : ");
8     scanf("%d %d",&a,&b);
9     sum = a+b;
10    printf("The sum of the values is : %d",sum);
11}
12
```

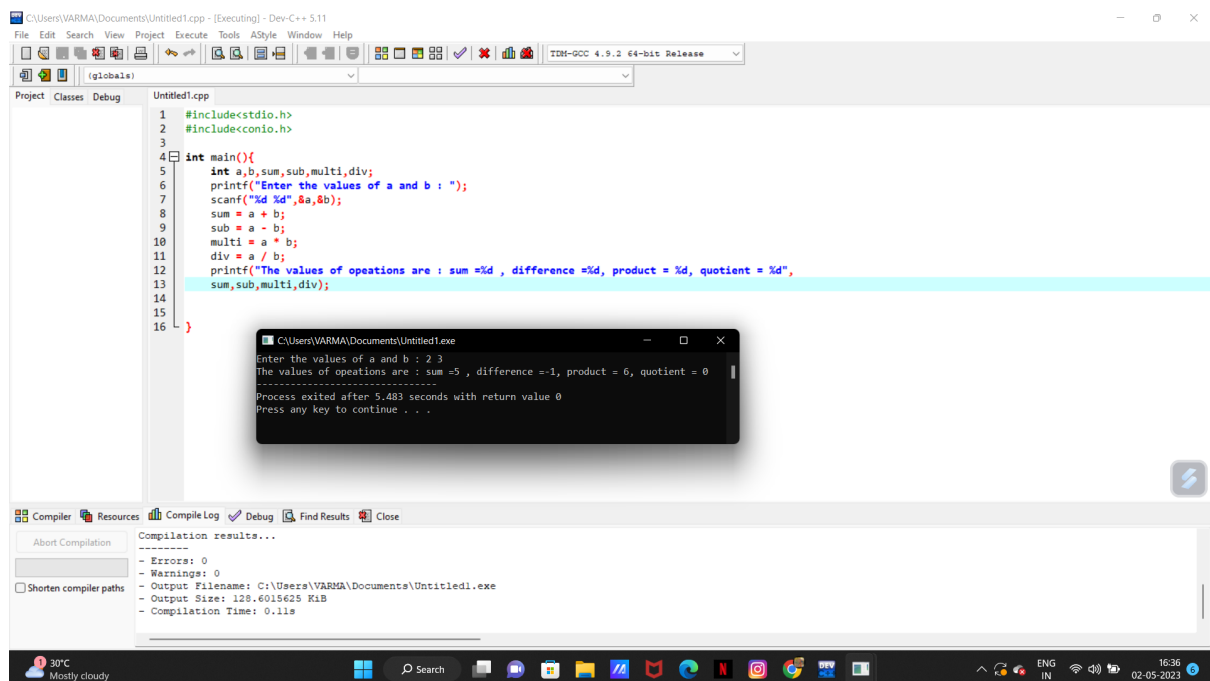
The execution output is shown in a separate window:

```
C:\Users\VARMA\Documents\Untitled1.exe
Enter the values of a and b : 3 5
The sum of the values is : 8
-----
Process exited after 2.66 seconds with return value 0
Press any key to continue . . .
```

The compilation results are shown at the bottom:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled1.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.11s
```

2. ARITHMETIC OPERATIONS IN C USING DYNAMIC INITIALIZATION



The screenshot shows the Dev-C++ IDE with a C program for multiple arithmetic operations. The code is as follows:

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

The execution output is shown in a separate window:

```
C:\Users\VARMA\Documents\Untitled1.exe
Enter the values of a and b : 2 3
The values of opeations are : sum =5 , difference =-1, product = 6, quotient = 0
-----
Process exited after 5.483 seconds with return value 0
Press any key to continue . . .
```

The compilation results are shown at the bottom:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled1.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.11s
```

3. ARITHMETIC OPERATION IN C USING STATIC INITIALIZATION

The screenshot shows a C program in a code editor. The program includes `stdio.h` and `conio.h`. In the `main` function, variables `a` and `b` are initialized to 10 and 20 respectively. Then, `sum`, `subtraction`, `multiplication`, and `division` are calculated. The results are printed using `printf`. A console window shows the output: "The values of operations are : sum =30 , difference =-10, product = 200, quotient = 0". The compiler window shows 0 errors and 0 warnings.

```
1 #include<stdio.h>
2 #include<conio.h>
3
4 int main(){
5     int a,b,sum,subtraction,multiplication,division;
6     a = 10;
7     b = 20;
8     sum = a + b;
9     subtraction = a - b;
10    multiplication = a * b;
11    division = a / b;
12    printf("The values of operations are : sum =%d , difference =%d, product = %d, quotient = %d",
13    sum,subtraction,multiplication,division);
14    public int _cdecl printf(const char * __restrict__ _Format, ...)
15
16 }
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled1.exe
- Output Size: 128.431640625 KiB
- Compilation Time: 0.13s

4.C PROGRAM TO CHECK THE GIVEN NUMBERS IS ODD OR EVEN

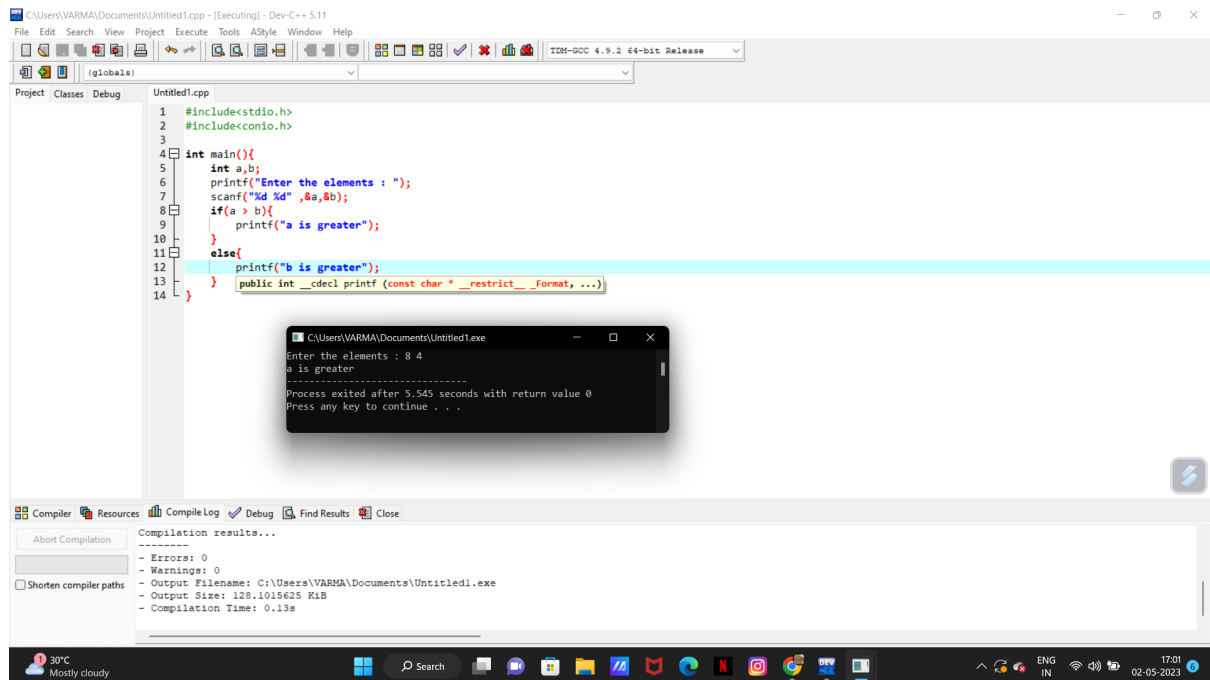
The screenshot shows a C program in a code editor. The program includes `stdio.h` and `conio.h`. In the `main` function, a variable `a` is declared. The program prompts the user to "Enter the elements : " and reads the input using `scanf`. It then checks if the number is even using `if(a%2==0)` and prints "The given number is an even number". If not, it checks if the number is odd using `else if(a%2!=0)` and prints "The given number is odd number". A console window shows the output: "Enter the elements : 5", "The given number is odd number". The compiler window shows 0 errors and 0 warnings.

```
1 #include<stdio.h>
2 #include<conio.h>
3
4 int main(){
5     int a;
6     printf("Enter the elements : ");
7     scanf("%d",&a);
8     public int _cdecl scanf(const char * __restrict__ _Format, ...)
9     if(a%2==0){
10         printf("The given number is an even number");
11     }
12     else if(a%2!=0){
13         printf("The given number is neither even are odd");
14     }
15     else{
16         printf("The given number is odd number");
17     }
18 }
```

Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled1.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.13s

5.CHEKING BIGGER VALUE BETWEEN TWO VALUES



The screenshot shows the Dev-C++ IDE with a C program that compares two numbers. The code is as follows:

```
1 #include<stdio.h>
2 #include<conio.h>
3
4 int main(){
5     int a,b;
6     printf("Enter the elements : ");
7     scanf("%d %d", &a,&b);
8     if(a > b){
9         printf("a is greater");
10    }
11    else{
12        printf("b is greater");
13    }
14 }
```

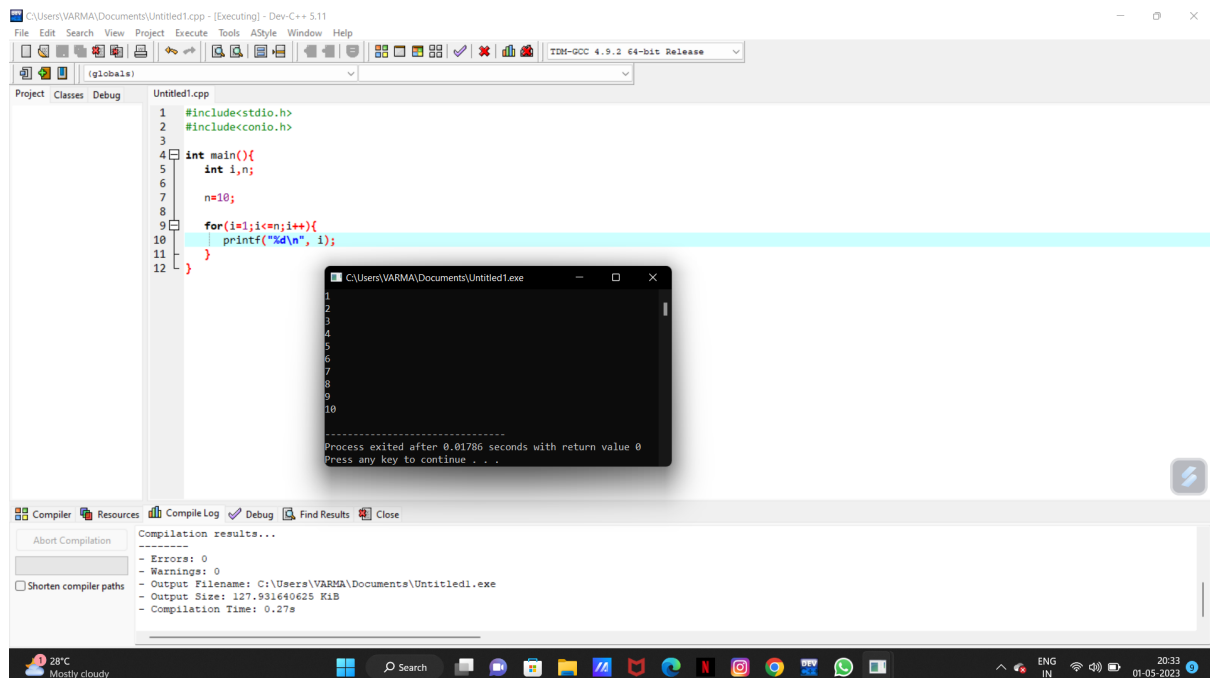
The program was compiled successfully. The output window shows the following execution results:

```
C:\Users\VARMA\Documents\Untitled1.exe
Enter the elements : 8 4
a is greater
-----
Process exited after 5.545 seconds with return value 0
Press any key to continue . . .
```

The compilation results are also visible at the bottom:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled1.exe
- Output Size: 128.1015625 K1B
- Compilation Time: 0.13s
```

6.PRINT NUMBERS FROM 1 TO 10



The screenshot shows the Dev-C++ IDE with a C program that prints numbers from 1 to 10. The code is as follows:

```
1 #include<stdio.h>
2 #include<conio.h>
3
4 int main(){
5     int i,n;
6
7     n=10;
8
9     for(i=1;i<=n;i++){
10        printf("%d\n", i);
11    }
12 }
```

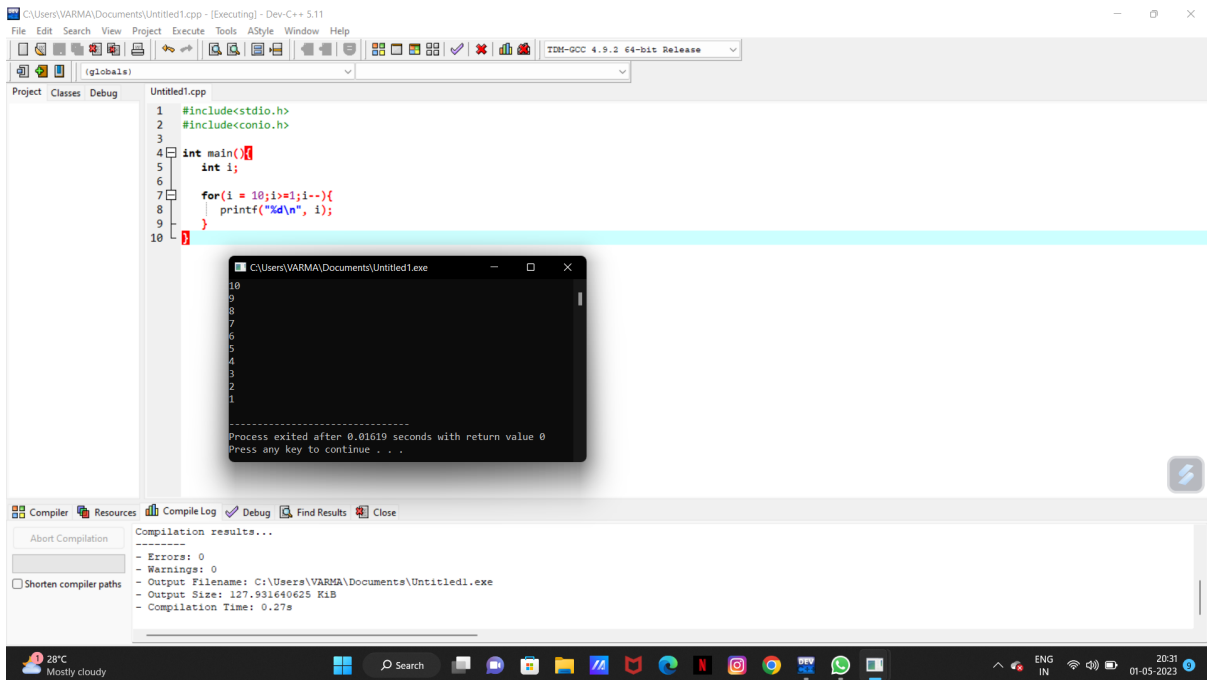
The program was compiled successfully. The output window shows the following execution results:

```
C:\Users\VARMA\Documents\Untitled1.exe
1
2
3
4
5
6
7
8
9
10
-----
Process exited after 0.01786 seconds with return value 0
Press any key to continue . . .
```

The compilation results are also visible at the bottom:

```
Compilation results...
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled1.exe
- Output Size: 127.931640625 K1B
- Compilation Time: 0.27s
```

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 >= 1; i--){
8         printf("%d\n", i);
9     }
10 }
```

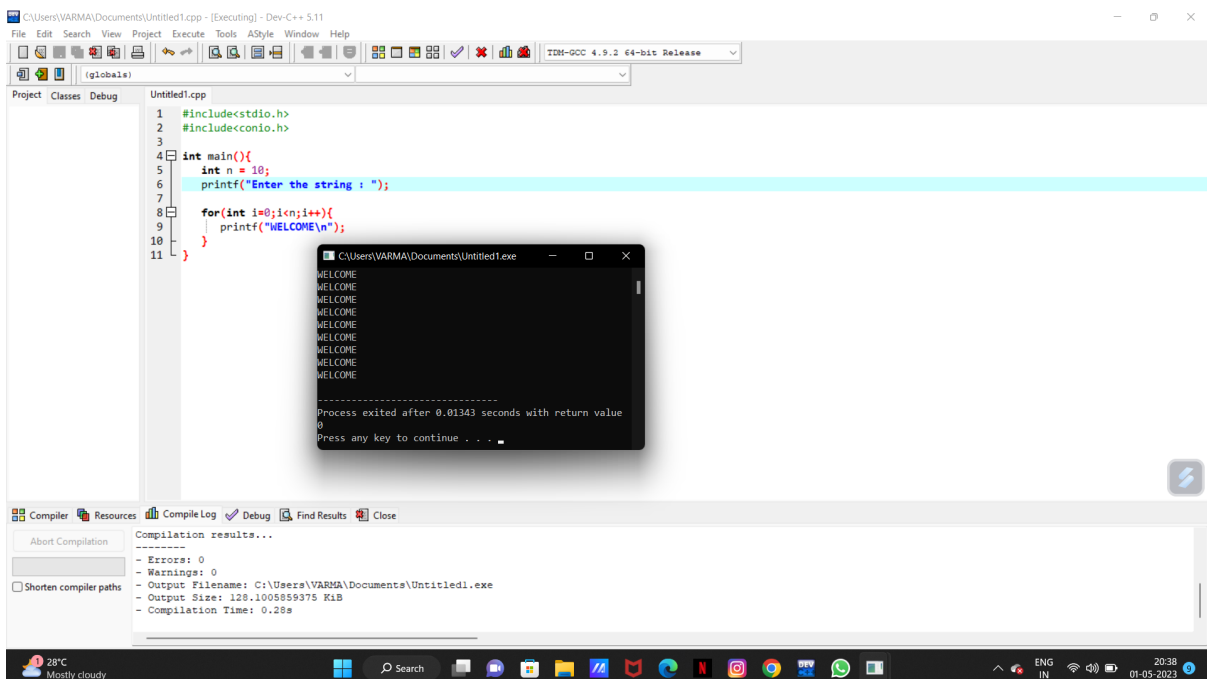
Output window (Untitled1.exe):

```
10
9
8
7
6
5
4
3
2
1
-----
Process exited after 0.01619 seconds with return value 0
Press any key to continue . . .
```

Compilation results:

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled1.exe
- Output Size: 127.931640625 KiB
- Compilation Time: 0.27s
```

8.PRINT STATEMENT “WELCOME” USING LOOPING



```
1 #include<stdio.h>
2 #include<conio.h>
3
4 int main()
5 {
6     int n = 10;
7     printf("Enter the string : ");
8     for(int i=0; i<n; i++){
9         printf("WELCOME\n");
10     }
11 }
```

Output window (Untitled1.exe):

```
WELCOME
WELCOME
WELCOME
WELCOME
WELCOME
WELCOME
WELCOME
WELCOME
WELCOME
WELCOME
-----
Process exited after 0.01343 seconds with return value 0
Press any key to continue . . .
```

Compilation results:

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled1.exe
- Output Size: 128.1005859375 KiB
- Compilation Time: 0.28s
```

9.MARKS AND GRADES IN C(USING CONDITIONAL STATEMENTS)

The screenshot shows the Dev-C++ IDE with a C program for calculating marks and grades. The code is as follows:

```
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 program was executed, and the output window shows the following text:

```
C:\Users\VARMA\Documents\Untitled3.exe
Enter the mark: 76
C grade
-----
Process exited after 3.865 seconds with return value 0
Press any key to continue . . .
```

The compilation results window shows the following information:

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

10.BIGGER BETWEEN THREE VALUES

The screenshot shows the Dev-C++ IDE with a C program for finding the biggest value among three numbers. The code is as follows:

```
1 #include<stdio.h>
2 #include<conio.h>
3
4 int main(){
5     int a,b,c;
6     printf("Enter the elements of a b c: ");
7     scanf("%d %d %d",&a,&b,&c);
8
9     if (a > b && a > c) {
10         printf("The values of a=%d is greater",a);
11     }
12     else if (b > a && b > c) {
13         printf("The value of b=%d is greater", b);
14     }
15     else {
16         printf("The value of c=%d is greater", c);
17     }
18 }

```

The program was executed, and the output window shows the following text:

```
C:\Users\VARMA\Documents\Untitled2.exe
Enter the elements of a b c: 200 165 172
The values of a=200 is greater
-----
Process exited after 11.04 seconds with return value 0
Press any key to continue . . .
```

The compilation results window shows the following information:

```
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled2.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.31s
```