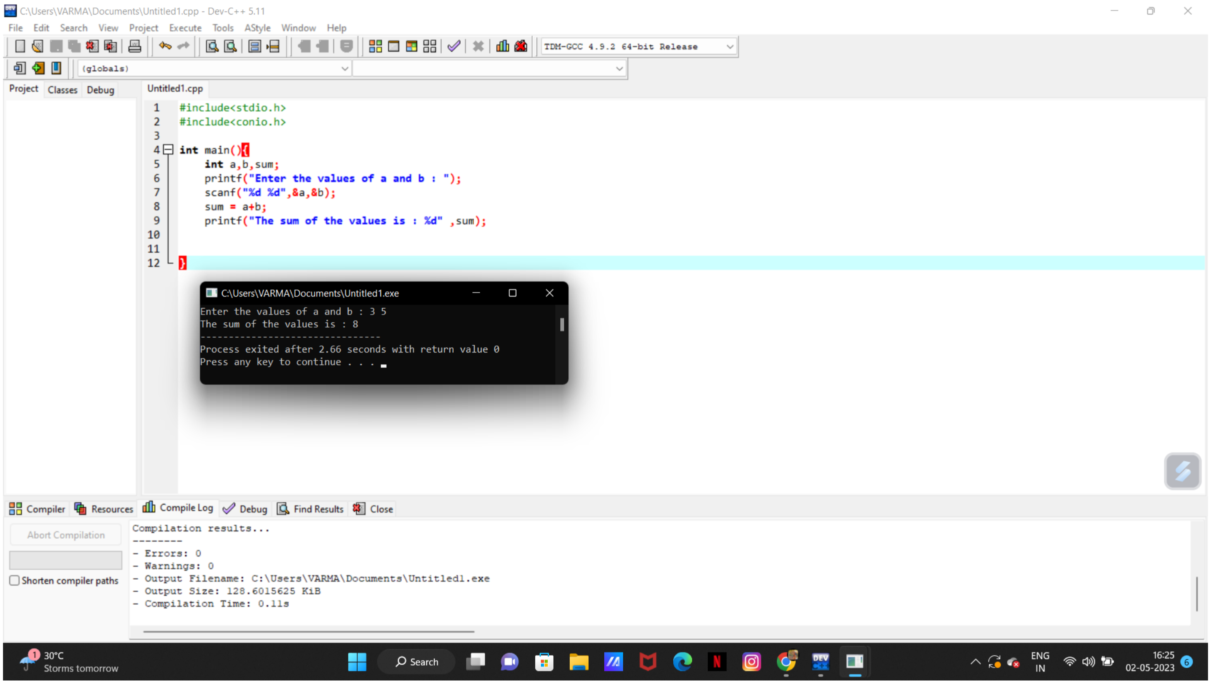
1.ARITHMETIC OPERATION IN C USING DYNAMIC INITIALIZATION



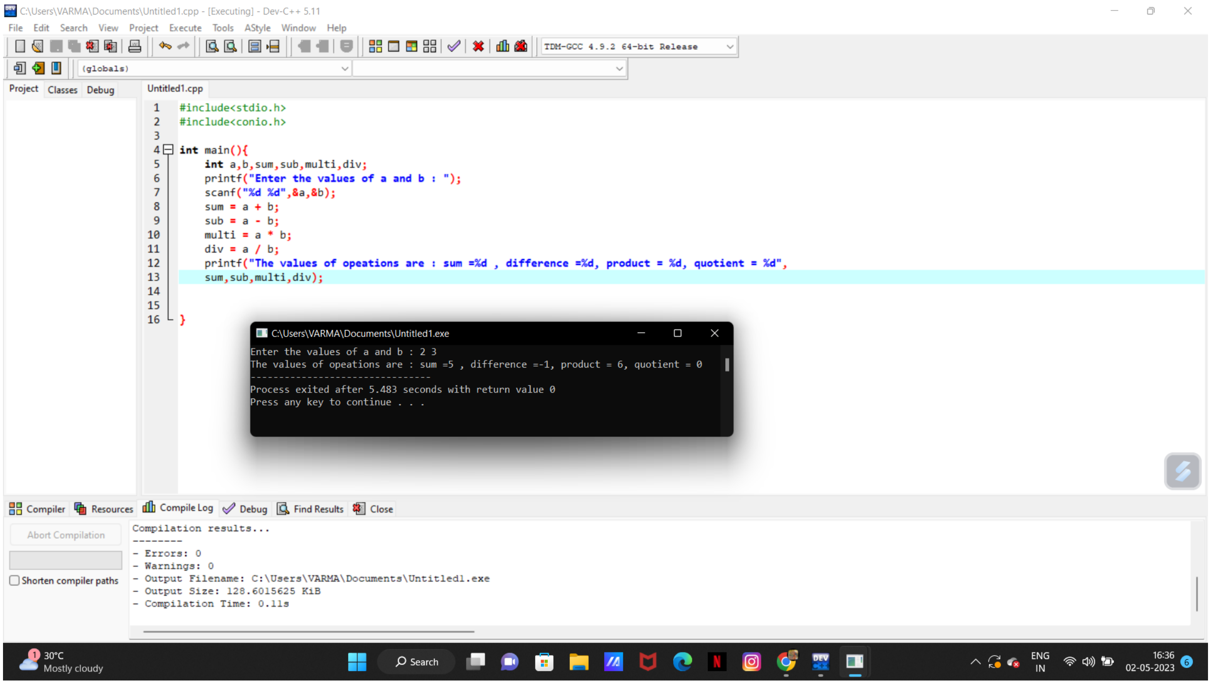
C:\Users\VARMA\Documents\Untitled1.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
C:\Users\VARMA\Documents\Untitled1.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
30°C
Storms tomorrow
Search
ENG
IN
16:25
02-05-2023

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

int main(){
    int a,b,sum;
    printf("Enter the values of a and b : ");
    scanf("%d %d",&a,&b);
    sum = a+b;
    printf("The sum of the values is : %d" ,sum);


}
```

```
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 . . .
```

```
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



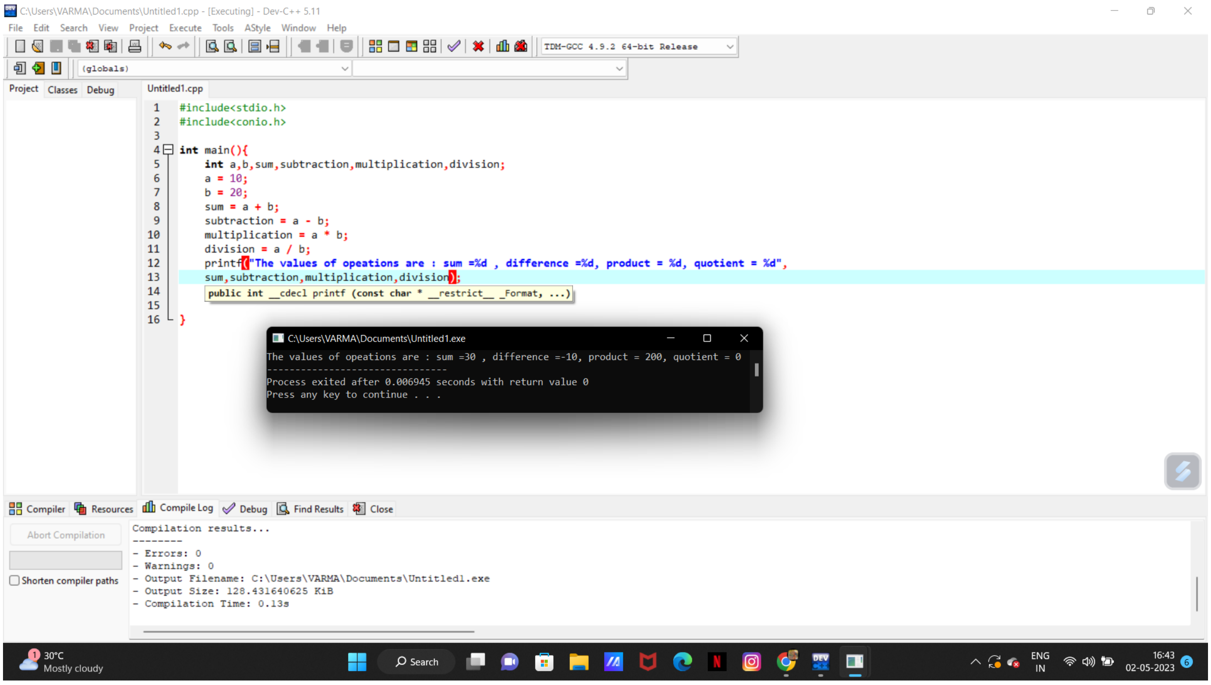
C:\Users\VARMA\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
C:\Users\VARMA\Documents\Untitled1.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
30°C
Mostly cloudy
Search
ENG
IN
16:36
02-05-2023

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

int main(){
    int a,b,sum,sub,multi,div;
    printf("Enter the values of a and b : ");
    scanf("%d %d",&a,&b);
    sum = a + b;
    sub = a - b;
    multi = a * b;
    div = a / b;
    printf("The values of opeations are : sum =%d , difference =%d, product = %d, quotient = %d",
    sum,sub,multi,div);


}
```

```
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 . . .
```

```
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 INITILIZATION


C:\Users\VARMA\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
30°C
Mostly cloudy
Search
ENG
IN
16:43
02-05-2023

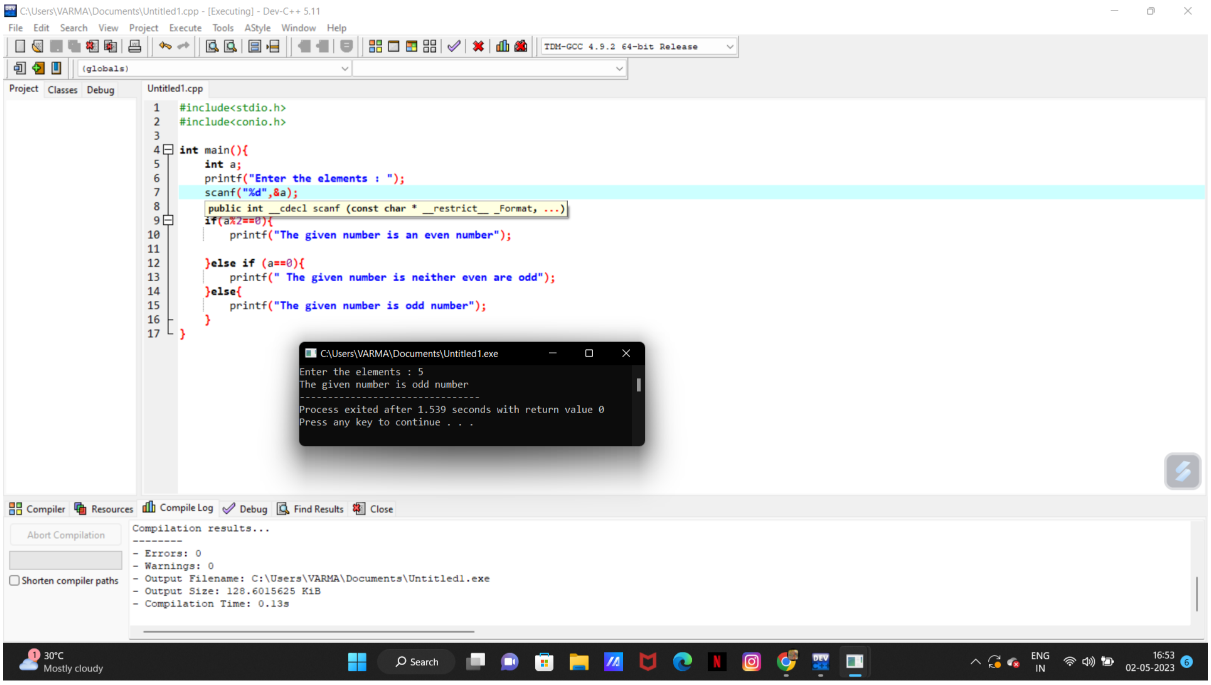
```c
#include<stdio.h>
#include<conio.h>

int main(){
    int a,b,sum,subtraction,multiplication,division;
    a = 10;
    b = 20;
    sum = a + b;
    subtraction = a - b;
    multiplication = a * b;
    division = a / b;
    printf("The values of opeations are : sum =%d , difference =%d, product = %d, quotient = %d",
    sum,subtraction,multiplication,division);
    public int __cdecl printf (const char * __restrict__ _Format, ...)

}
```

C:\Users\VARMA\Documents\Untitled1.exe

```
The values of opeations are : sum =30 , difference =-10, product = 200, quotient = 0
--------------------------------
Process exited after 0.006945 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: 128.431640625 KiB
- Compilation Time: 0.13s
```

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


C:\Users\VARMA\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
30°C
Mostly cloudy
Search
ENG
IN
16:53
02-05-2023

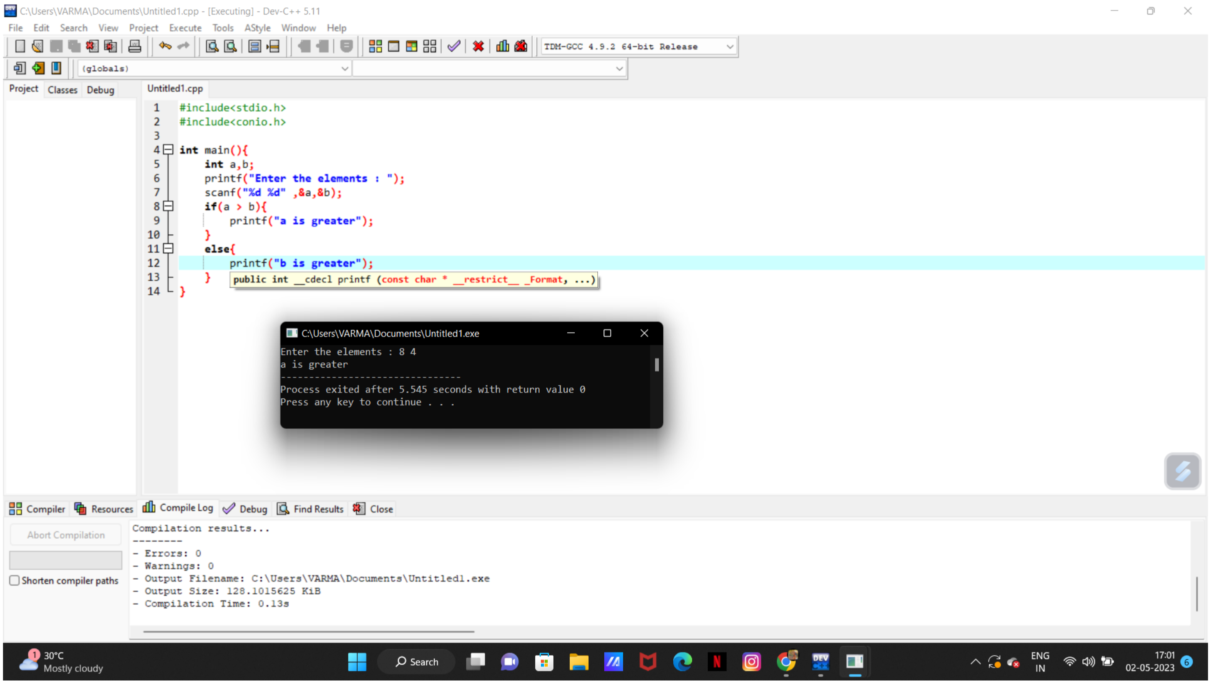
```c
#include<stdio.h>
#include<conio.h>

int main(){
    int a;
    printf("Enter the elements : ");
    scanf("%d",&a);
    public int __cdecl scanf (const char * __restrict__ _Format, ...)
    if(a%2==0){
        printf("The given number is an even number");

    }else if (a==0){
        printf(" The given number is neither even are odd");
    }else{
        printf("The given number is odd number");
    }
}
```

C:\Users\VARMA\Documents\Untitled1.exe

```
Enter the elements : 5
The given number is odd number
--------------------------------
Process exited after 1.539 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: 128.6015625 KiB
- Compilation Time: 0.13s
```

5.CHEKING BIGGER VALUE BETWEEN TWO VALUES


C:\Users\VARMA\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
30°C
Mostly cloudy
Search
ENG
IN
17:01
02-05-2023

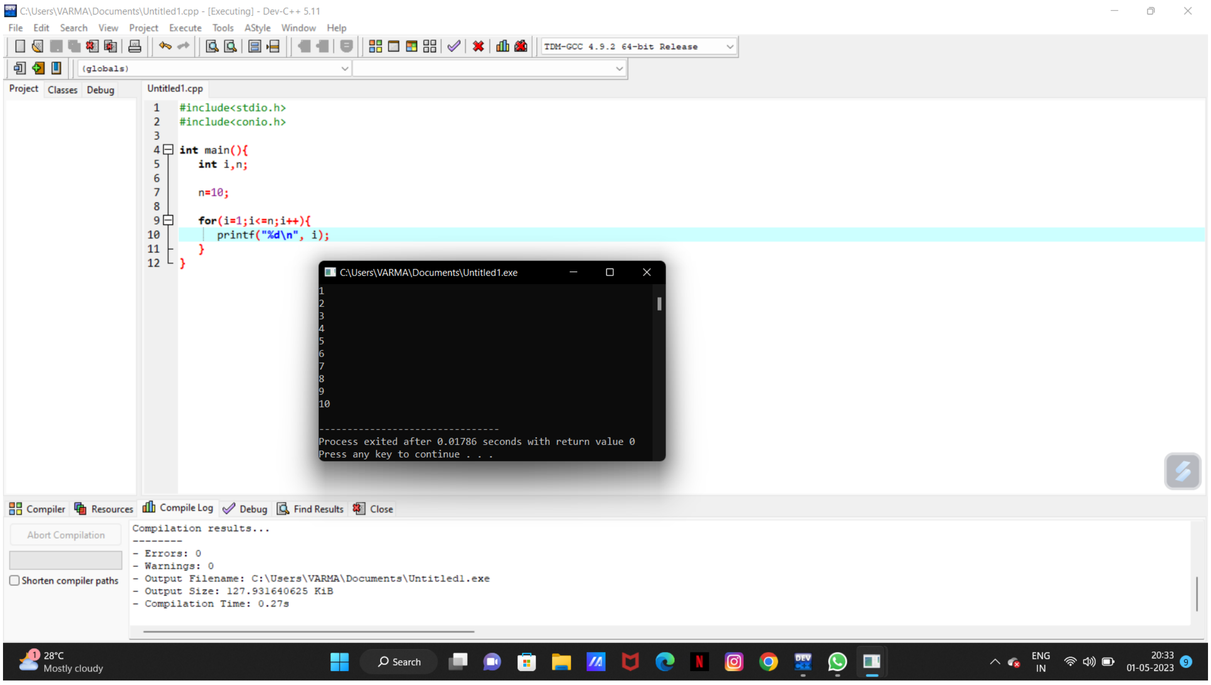
```c
#include<stdio.h>
#include<conio.h>

int main(){
    int a,b;
    printf("Enter the elements : ");
    scanf("%d %d" ,&a,&b);
    if(a > b){
        printf("a is greater");
    }
    else{
        printf("b is greater");
    }  public int __cdecl printf (const char * __restrict__ _Format, ...)
}
```

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 . . .
```

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

6.PRINT NUMBERS FROM 1 TO 10


C:\Users\VARMA\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
28°C
Mostly cloudy
Search
ENG
IN
20:33
01-05-2023

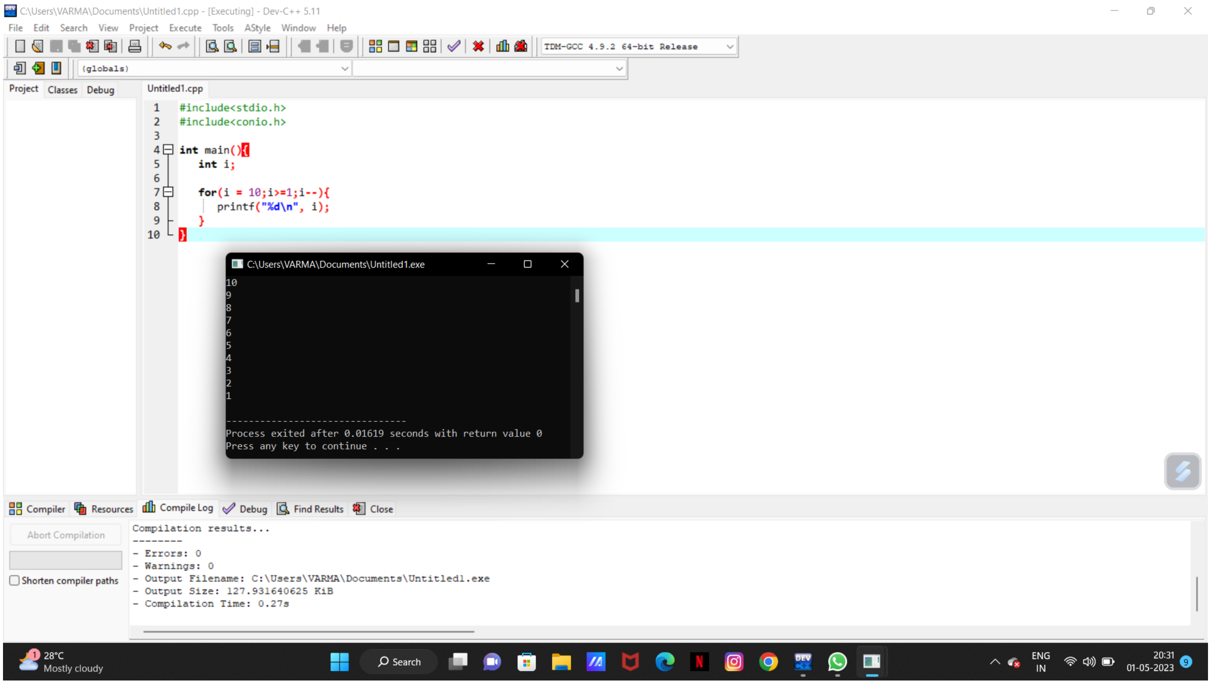
```c
#include<stdio.h>
#include<conio.h>

int main(){
    int i,n;

    n=10;

    for(i=1;i<=n;i++){
        printf("%d\n", i);
    }
}
```

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 . . .
```

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

7.PRINT NUMBERS FROM 10 TO 1

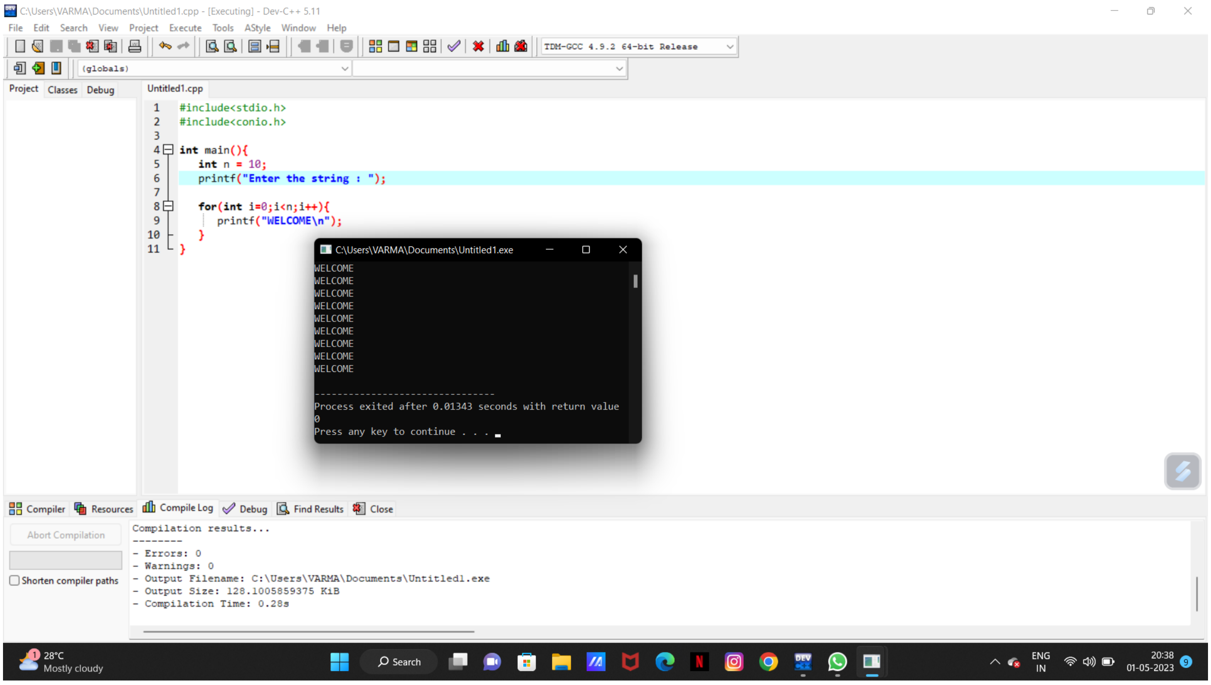

C:\Users\VARMA\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
C:\Users\VARMA\Documents\Untitled1.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
28°C Mostly cloudy
Search
ENG IN
20:31 01-05-2023

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

int main(){
    int i;

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

```
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

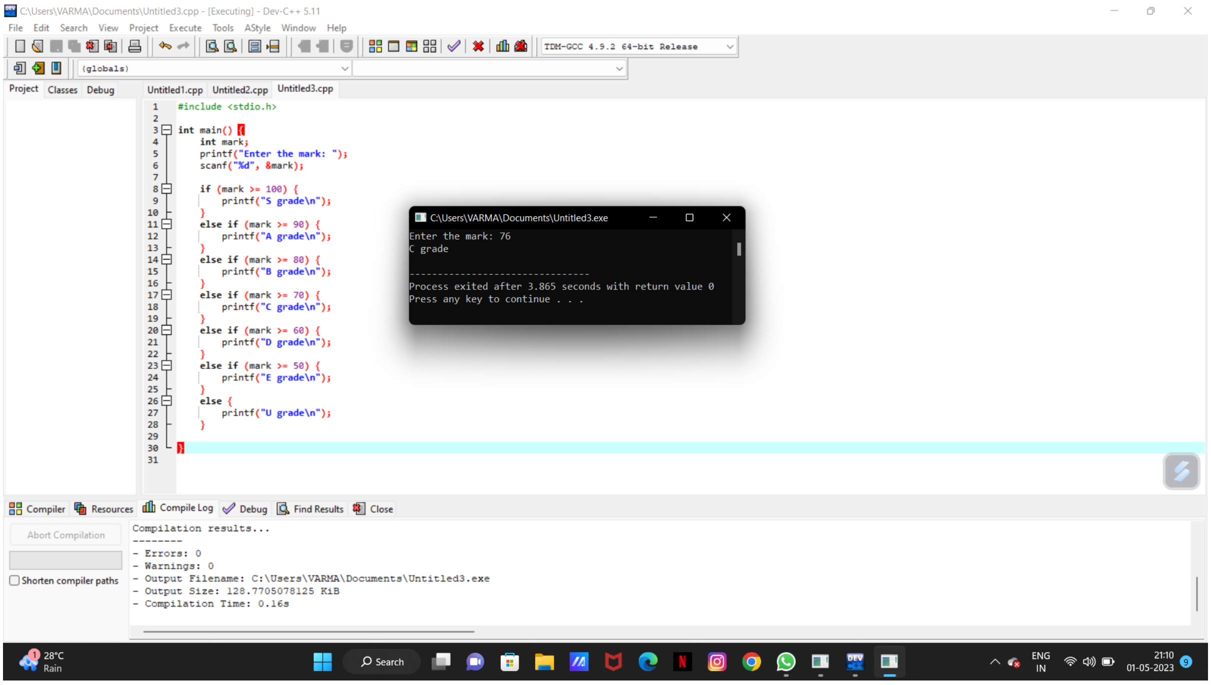

C:\Users\VARMA\Documents\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
C:\Users\VARMA\Documents\Untitled1.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
28°C Mostly cloudy
Search
ENG IN
20:38 01-05-2023

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

int main(){
    int n = 10;
    printf("Enter the string : ");

    for(int i=0;i<n;i++){
        printf("WELCOME\n");
    }
}
```

```
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)


C:\Users\VARMA\Documents\Untitled3.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp Untitled2.cpp Untitled3.cpp
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
28°C
Rain
Search
ENG
IN
21:10
01-05-2023

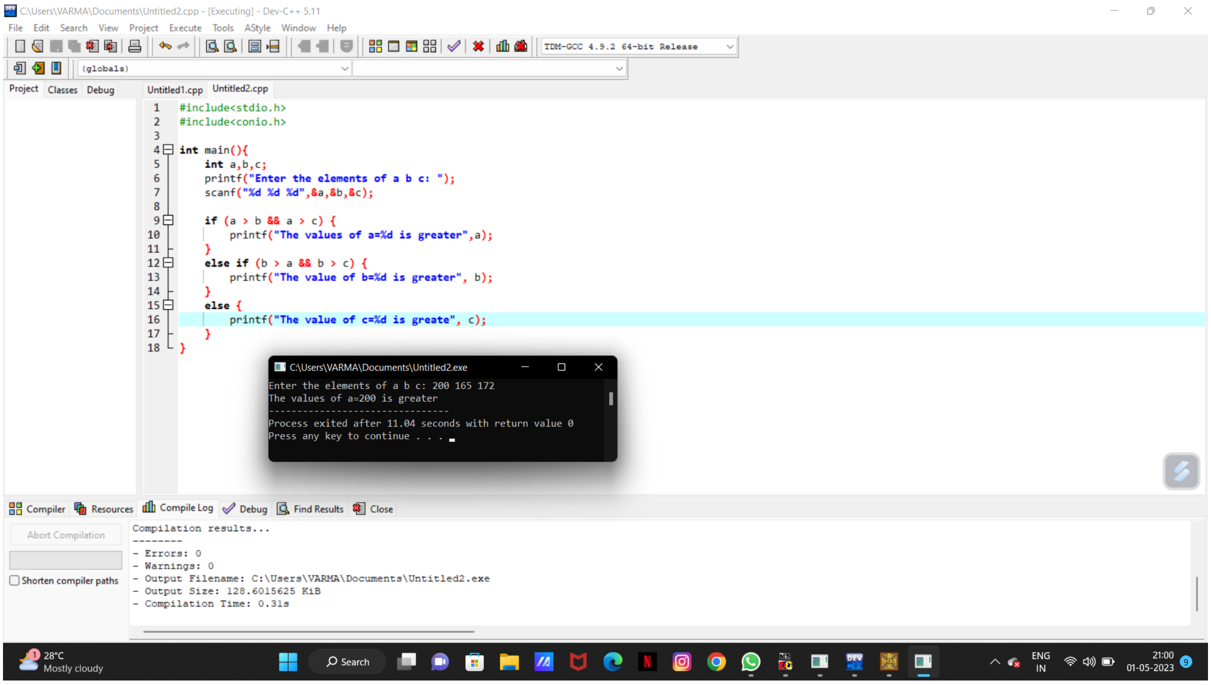
```c
#include <stdio.h>

int main() {
    int mark;
    printf("Enter the mark: ");
    scanf("%d", &mark);

    if (mark >= 100) {
        printf("S grade\n");
    }
    else if (mark >= 90) {
        printf("A grade\n");
    }
    else if (mark >= 80) {
        printf("B grade\n");
    }
    else if (mark >= 70) {
        printf("C grade\n");
    }
    else if (mark >= 60) {
        printf("D grade\n");
    }
    else if (mark >= 50) {
        printf("E grade\n");
    }
    else {
        printf("U grade\n");
    }

}
```

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 . . .
```

```
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


C:\Users\VARMA\Documents\Untitled2.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp Untitled2.cpp
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
28°C
Mostly cloudy
Search
ENG
IN
21:00
01-05-2023

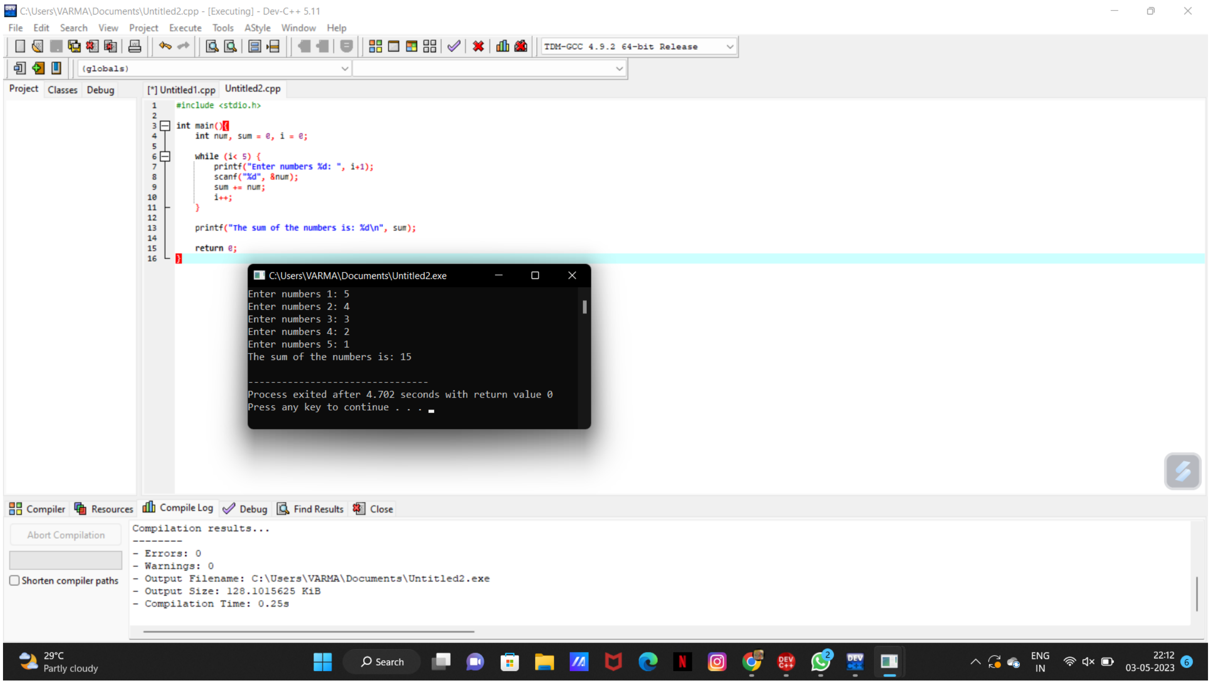
```c
#include<stdio.h>
#include<conio.h>

int main(){
    int a,b,c;
    printf("Enter the elements of a b c: ");
    scanf("%d %d %d",&a,&b,&c);

    if (a > b && a > c) {
        printf("The values of a=%d is greater",a);
    }
    else if (b > a && b > c) {
        printf("The value of b=%d is greater", b);
    }
    else {
        printf("The value of c=%d is greate", c);
    }
}
```

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 . . .
```

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

11.GET 5 NUMBERS FROM USER AND SUM IT USING WHILE LOOP



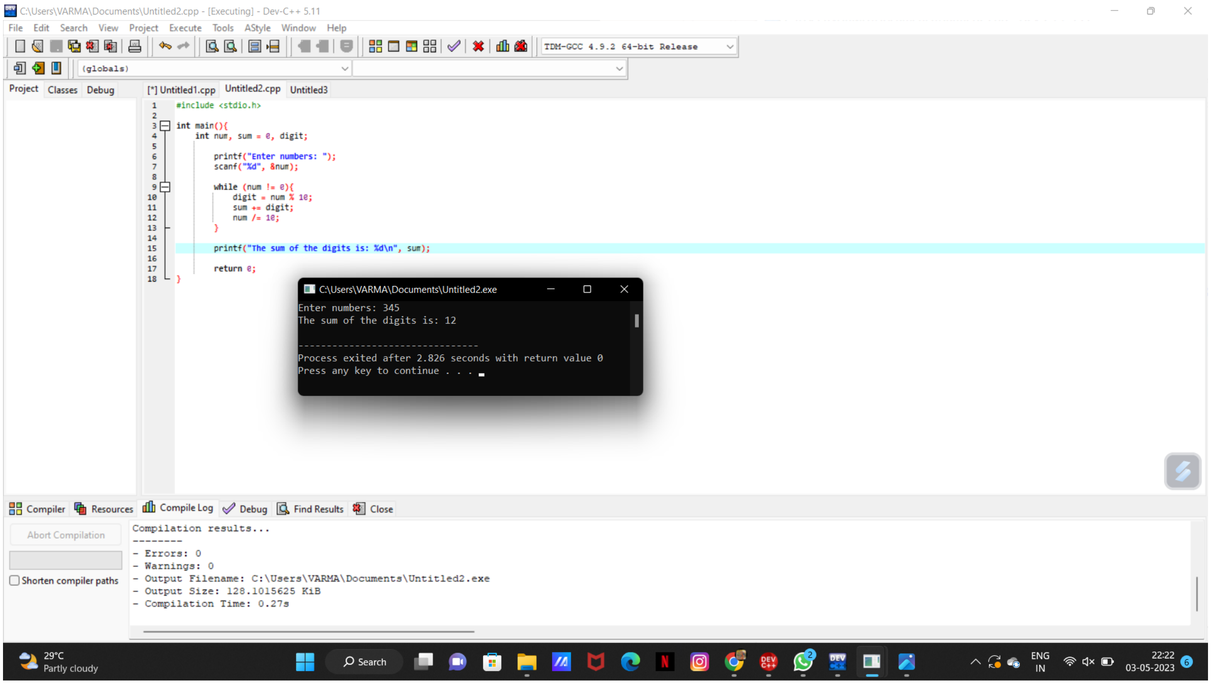
C:\Users\VARMA\Documents\Untitled2.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
[*] Untitled1.cpp Untitled2.cpp
C:\Users\VARMA\Documents\Untitled2.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
29°C
Partly cloudy
Search
ENG
IN
22:12
03-05-2023

```c
#include <stdio.h>

int main(){
    int num, sum = 0, i = 0;

    while (i< 5) {
        printf("Enter numbers %d: ", i+1);
        scanf("%d", &num);
        sum += num;
        i++;
    }

    printf("The sum of the numbers is: %d\n", sum);

    return 0;
}
```

```
Enter numbers 1: 5
Enter numbers 2: 4
Enter numbers 3: 3
Enter numbers 4: 2
Enter numbers 5: 1
The sum of the numbers is: 15

--------------------------------
Process exited after 4.702 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled2.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.25s
```

12. SUM OF DIGIOTS USING WHILE LOOP



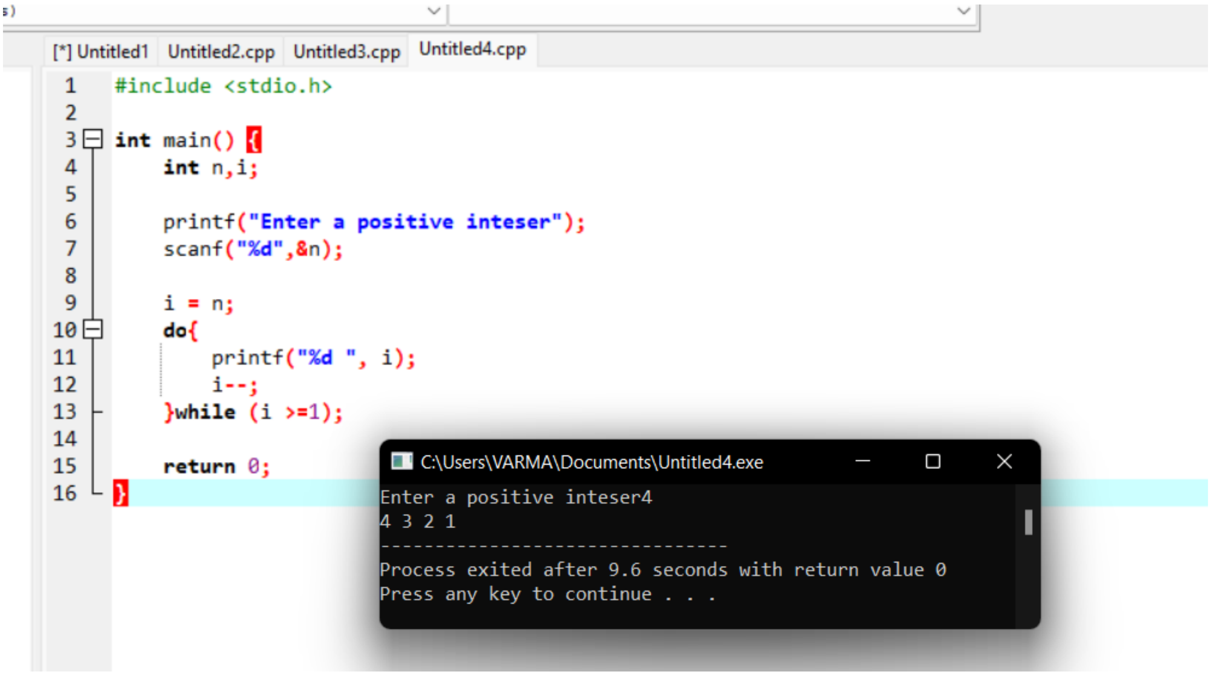
C:\Users\VARMA\Documents\Untitled2.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
[*] Untitled1.cpp Untitled2.cpp Untitled3
C:\Users\VARMA\Documents\Untitled2.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
29°C
Partly cloudy
Search
ENG
IN
22:22
03-05-2023

```c
#include <stdio.h>

int main(){
    int num, sum = 0, digit;

        printf("Enter numbers: ");
        scanf("%d", &num);

        while (num != 0){
            digit = num % 10;
            sum += digit;
            num /= 10;
        }

        printf("The sum of the digits is: %d\n", sum);

        return 0;
}
```

```
Enter numbers: 345
The sum of the digits is: 12

--------------------------------
Process exited after 2.826 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled2.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.27s
```

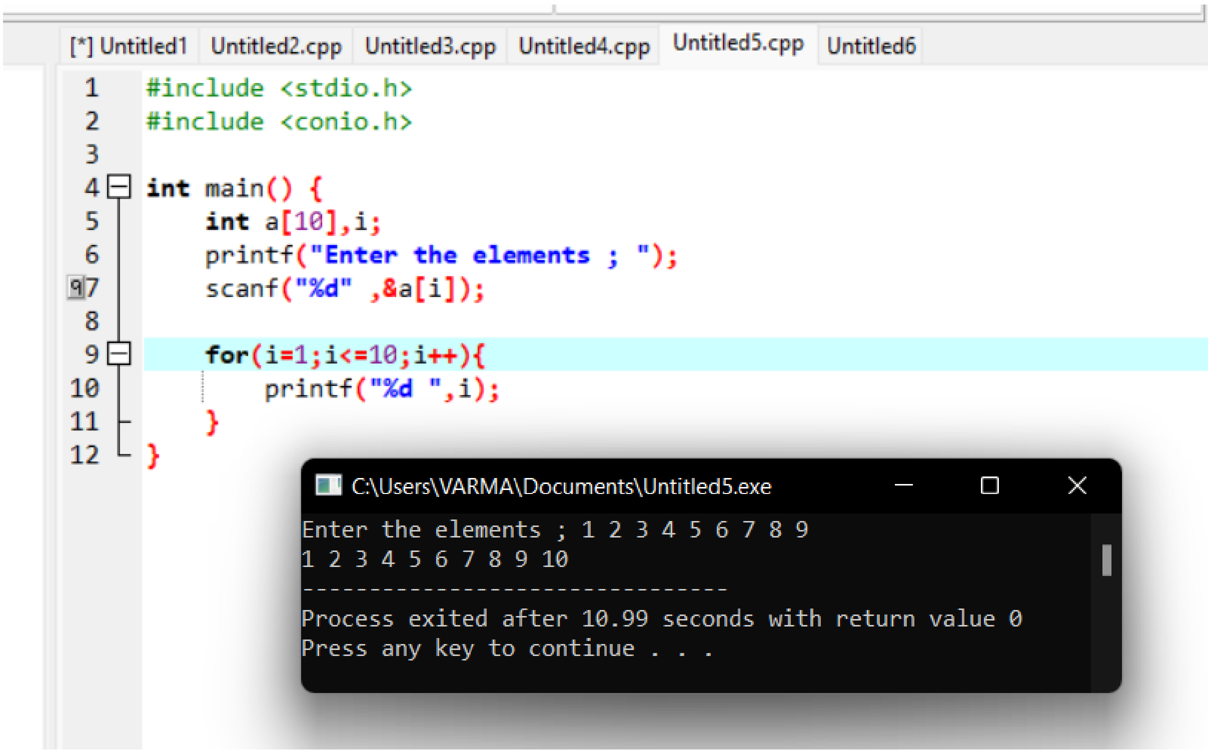
13.PRINT THE FIRST N NUMBERS IN REVERSE USING DO VALUE



```c
#include <stdio.h>

int main() {
    int n,i;

    printf("Enter a positive inteser");
    scanf("%d",&n);

    i = n;
    do{
        printf("%d ", i);
        i--;
    }while (i >=1);

    return 0;
}
```

```
Enter a positive inteser4
4 3 2 1
--------------------------------
Process exited after 9.6 seconds with return value 0
Press any key to continue . . .
```

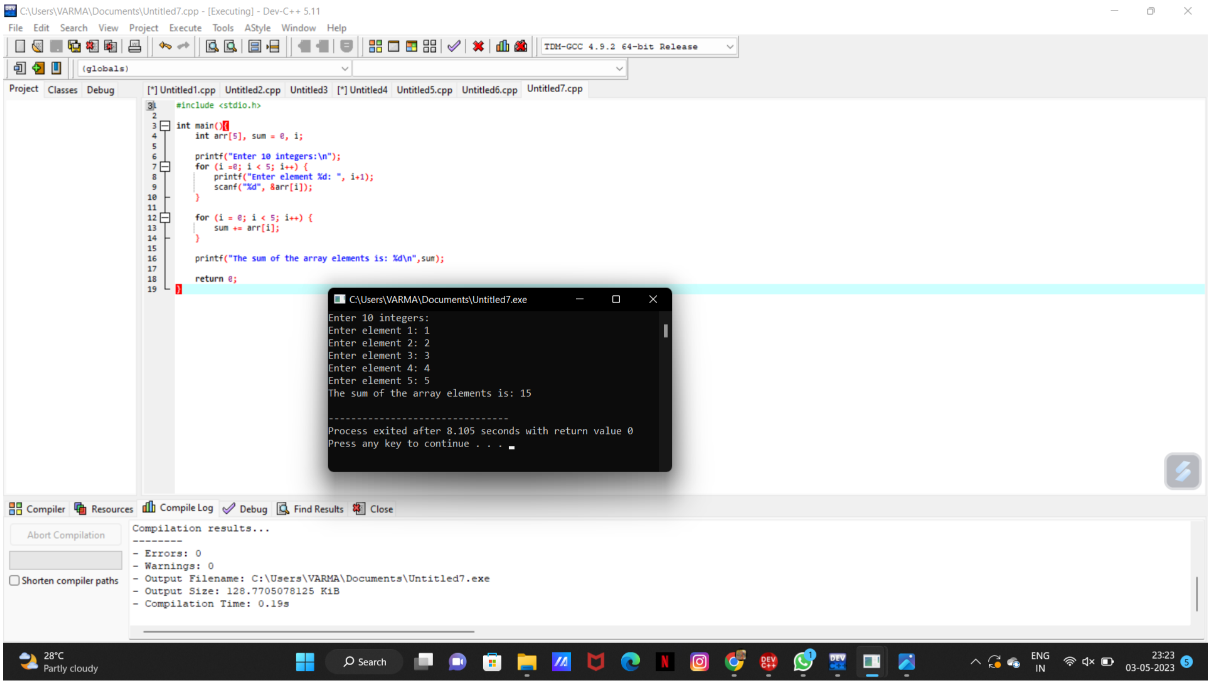
14. INNITIALIZATION OF ARRAY



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

int main() {
    int a[10],i;
    printf("Enter the elements ; ");
    scanf("%d" ,&a[i]);

    for(i=1;i<=10;i++){
        printf("%d ",i);
    }
}
```

```
Enter the elements ; 1 2 3 4 5 6 7 8 9
1 2 3 4 5 6 7 8 9 10
--------------------------------
Process exited after 10.99 seconds with return value 0
Press any key to continue . . .
```

15. SUM OF ARRAY ELEMENTS



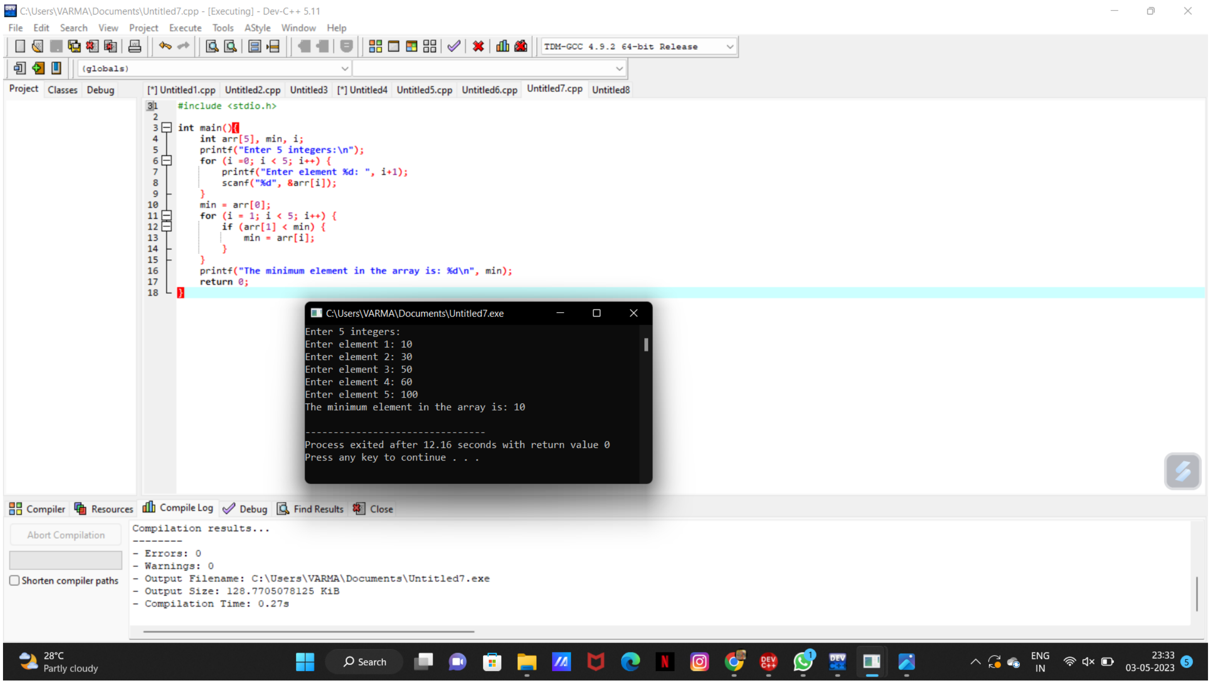
C:\Users\VARMA\Documents\Untitled7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
[*] Untitled1.cpp Untitled2.cpp Untitled3 [*] Untitled4 Untitled5.cpp Untitled6.cpp Untitled7.cpp
C:\Users\VARMA\Documents\Untitled7.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
28°C
Partly cloudy
Search
ENG
IN
23:23
03-05-2023

```c
#include <stdio.h>

int main(){
    int arr[5], sum = 0, i;

    printf("Enter 10 integers:\n");
    for (i =0; i < 5; i++) {
        printf("Enter element %d: ", i+1);
        scanf("%d", &arr[i]);
    }

    for (i = 0; i < 5; i++) {
        sum += arr[i];
    }

    printf("The sum of the array elements is: %d\n",sum);

    return 0;
}
```

```
Enter 10 integers:
Enter element 1: 1
Enter element 2: 2
Enter element 3: 3
Enter element 4: 4
Enter element 5: 5
The sum of the array elements is: 15

--------------------------------
Process exited after 8.105 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled7.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.19s
```

16. MINIMUM ELEMENT IN ARRAY



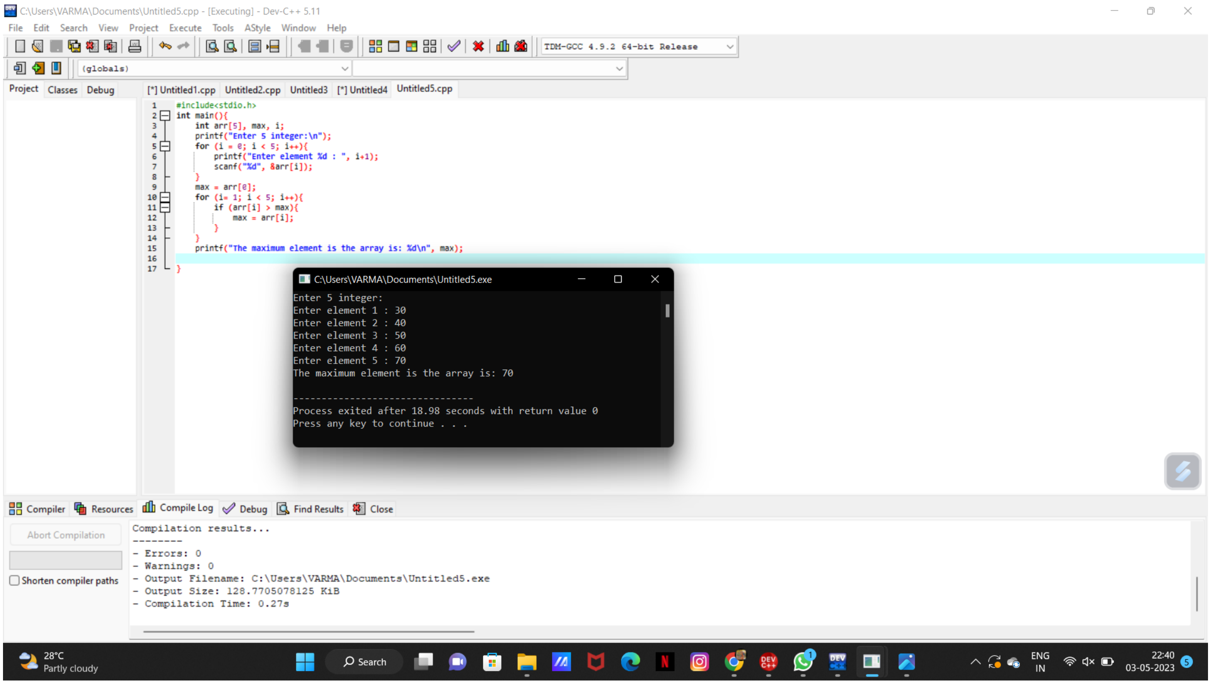
C:\Users\VARMA\Documents\Untitled7.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
[*] Untitled1.cpp Untitled2.cpp Untitled3 [*] Untitled4 Untitled5.cpp Untitled6.cpp Untitled7.cpp Untitled8
C:\Users\VARMA\Documents\Untitled7.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
28°C
Partly cloudy
Search
ENG
IN
23:33
03-05-2023

```c
#include <stdio.h>

int main(){
    int arr[5], min, i;
    printf("Enter 5 integers:\n");
    for (i =0; i < 5; i++) {
        printf("Enter element %d: ", i+1);
        scanf("%d", &arr[i]);
    }
    min = arr[0];
    for (i = 1; i < 5; i++) {
        if (arr[1] < min) {
            min = arr[i];
        }
    }
    printf("The minimum element in the array is: %d\n", min);
    return 0;
}
```

```
Enter 5 integers:
Enter element 1: 10
Enter element 2: 30
Enter element 3: 50
Enter element 4: 60
Enter element 5: 100
The minimum element in the array is: 10

--------------------------------
Process exited after 12.16 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled7.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.27s
```

17. MAXIMUM ELEMENT IN AN ARRAY



C:\Users\VARMA\Documents\Untitled5.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
[*] Untitled1.cpp Untitled2.cpp Untitled3 [*] Untitled4 Untitled5.cpp

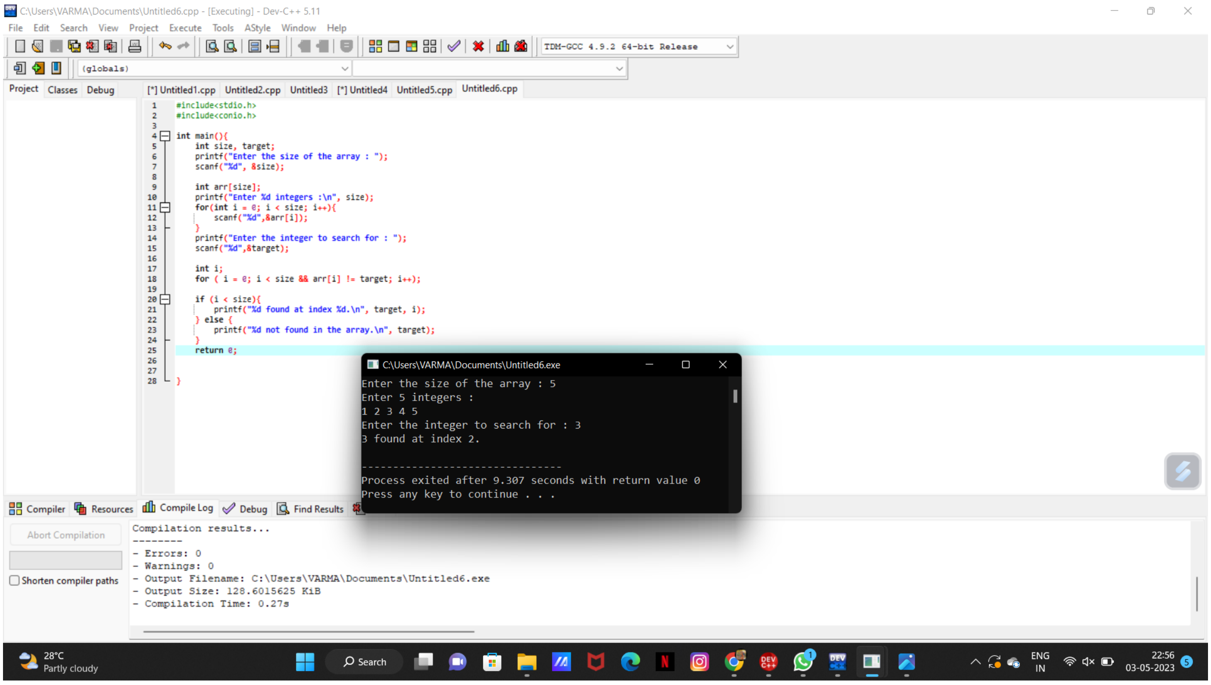
```c
#include<stdio.h>
int main(){
    int arr[5], max, i;
    printf("Enter 5 integer:\n");
    for (i = 0; i < 5; i++){
        printf("Enter element %d : ", i+1);
        scanf("%d", &arr[i]);
    }
    max = arr[0];
    for (i= 1; i < 5; i++){
        if (arr[i] > max){
            max = arr[i];
        }
    }
    printf("The maximum element is the array is: %d\n", max);

}
```

C:\Users\VARMA\Documents\Untitled5.exe

```
Enter 5 integer:
Enter element 1 : 30
Enter element 2 : 40
Enter element 3 : 50
Enter element 4 : 60
Enter element 5 : 70
The maximum element is the array is: 70

--------------------------------
Process exited after 18.98 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled5.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.27s
```

18.SEARCH ELEMENT IN ARRAY USING LINEAR SAEARCH



C:\Users\VARMA\Documents\Untitled6.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
[*] Untitled1.cpp Untitled2.cpp Untitled3 [*] Untitled4 Untitled5.cpp Untitled6.cpp

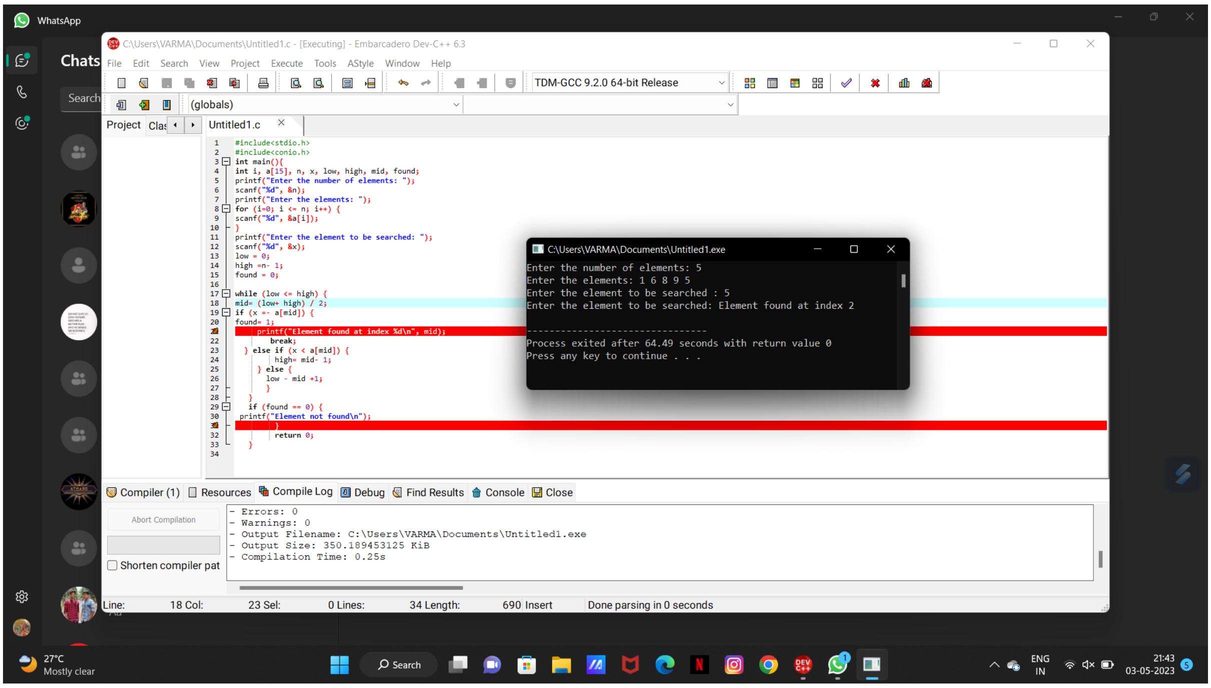
```c
#include<stdio.h>
#include<conio.h>

int main(){
    int size, target;
    printf("Enter the size of the array : ");
    scanf("%d", &size);

    int arr[size];
    printf("Enter %d integers :\n", size);
    for(int i = 0; i < size; i++){
        scanf("%d",&arr[i]);
    }
    printf("Enter the integer to search for : ");
    scanf("%d",&target);

    int i;
    for ( i = 0; i < size && arr[i] != target; i++);

    if (i < size){
        printf("%d found at index %d.\n", target, i);
    } else {
        printf("%d not found in the array.\n", target);
    }
    return 0;


}
```

C:\Users\VARMA\Documents\Untitled6.exe

```
Enter the size of the array : 5
Enter 5 integers :
1 2 3 4 5
Enter the integer to search for : 3
3 found at index 2.

--------------------------------
Process exited after 9.307 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled6.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.27s
```

19. BINARY SERACH

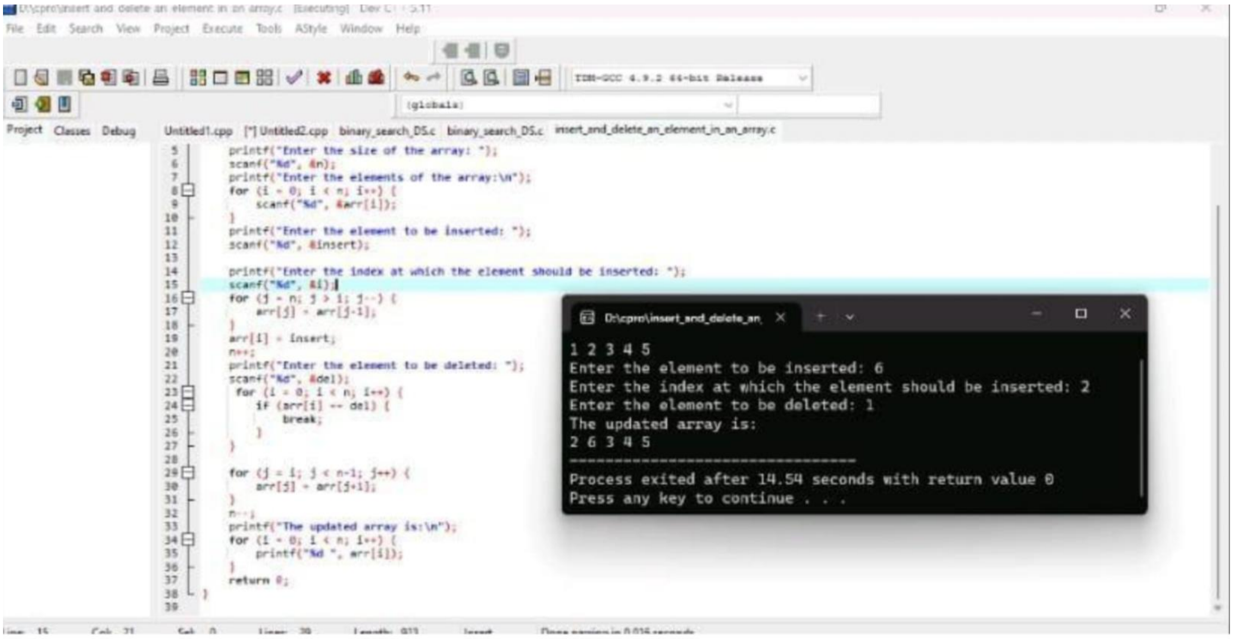


```c
#include<stdio.h>
#include<conio.h>
int main(){
int i, a[15], n, x, low, high, mid, found;
printf("Enter the number of elements: ");
scanf("%d", &n);
printf("Enter the elements: ");
for (i=0; i <= n; i++) {
scanf("%d", &a[i]);
}
printf("Enter the element to be searched: ");
scanf("%d", &x);
low = 0;
high =n- 1;
found = 0;

while (low <= high) {
mid= (low+ high) / 2;
if (x =- a[mid]) {
found= 1;
    printf("Element found at index %d\n", mid);
       break;
  } else if (x < a[mid]) {
        high= mid- 1;
     } else {
      low - mid +1;
      }
   }
   if (found == 0) {
 printf("Element not found\n");
        }
        return 0;
   }
```

```
Enter the number of elements: 5
Enter the elements: 1 6 8 9 5
Enter the element to be searched : 5
Enter the element to be searched: Element found at index 2

--------------------------------
Process exited after 64.49 seconds with return value 0
Press any key to continue . . .
```

```
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled1.exe
- Output Size: 350.189453125 KiB
- Compilation Time: 0.25s
```

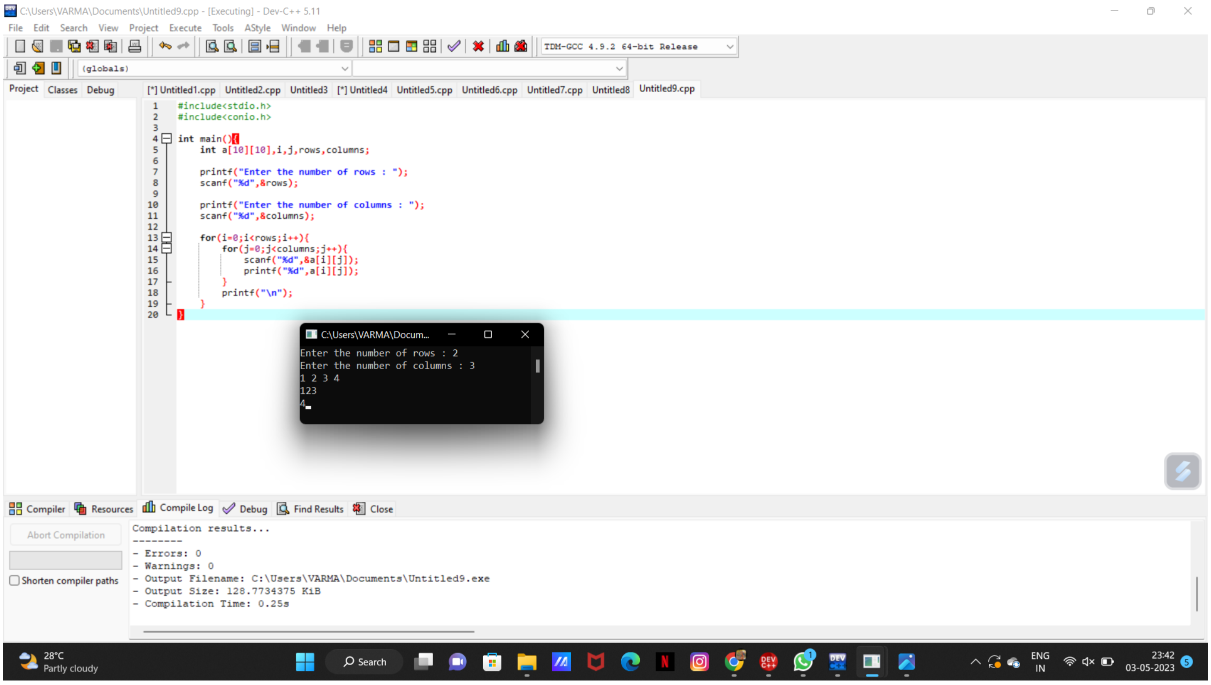
20.INSERT AND DELETE A ELEMENT IN AN ARRAY



```c
    printf("Enter the size of the array: ");
    scanf("%d", &n);
    printf("Enter the elements of the array:\n");
    for (i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    printf("Enter the element to be inserted: ");
    scanf("%d", &insert);

    printf("Enter the index at which the element should be inserted: ");
    scanf("%d", &i);
    for (j = n; j > i; j--) {
        arr[j] = arr[j-1];
    }
    arr[i] = insert;
    n++;
    printf("Enter the element to be deleted: ");
    scanf("%d", &del);
     for (i = 0; i < n; i++) {
        if (arr[i] == del) {
            break;
        }
    }

    for (j = i; j < n-1; j++) {
        arr[j] = arr[j+1];
    }
    n--;
    printf("The updated array is:\n");
    for (i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }
    return 0;
}
```

```
1 2 3 4 5
Enter the element to be inserted: 6
Enter the index at which the element should be inserted: 2
Enter the element to be deleted: 1
The updated array is:
2 6 3 4 5
--------------------------------
Process exited after 14.54 seconds with return value 0
Press any key to continue . . .
```

21. INITIALIZATION AND PRINTING OF 2-D ARRAY


C:\Users\VARMA\Documents\Untitled9.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
[*] Untitled1.cpp Untitled2.cpp Untitled3 [*] Untitled4 Untitled5.cpp Untitled6.cpp Untitled7.cpp Untitled8 Untitled9.cpp
C:\Users\VARMA\Docum...
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
□ Shorten compiler paths
28°C
Partly cloudy
Search
ENG
IN
23:42
03-05-2023

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

int main(){
    int a[10][10],i,j,rows,columns;

    printf("Enter the number of rows : ");
    scanf("%d",&rows);

    printf("Enter the number of columns : ");
    scanf("%d",&columns);

    for(i=0;i<rows;i++){
        for(j=0;j<columns;j++){
            scanf("%d",&a[i][j]);
            printf("%d",a[i][j]);
        }
        printf("\n");
    }
}
```

```
Enter the number of rows : 2
Enter the number of columns : 3
1 2 3 4
123
4
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\VARMA\Documents\Untitled9.exe
- Output Size: 128.7734375 KiB
- Compilation Time: 0.25s
```