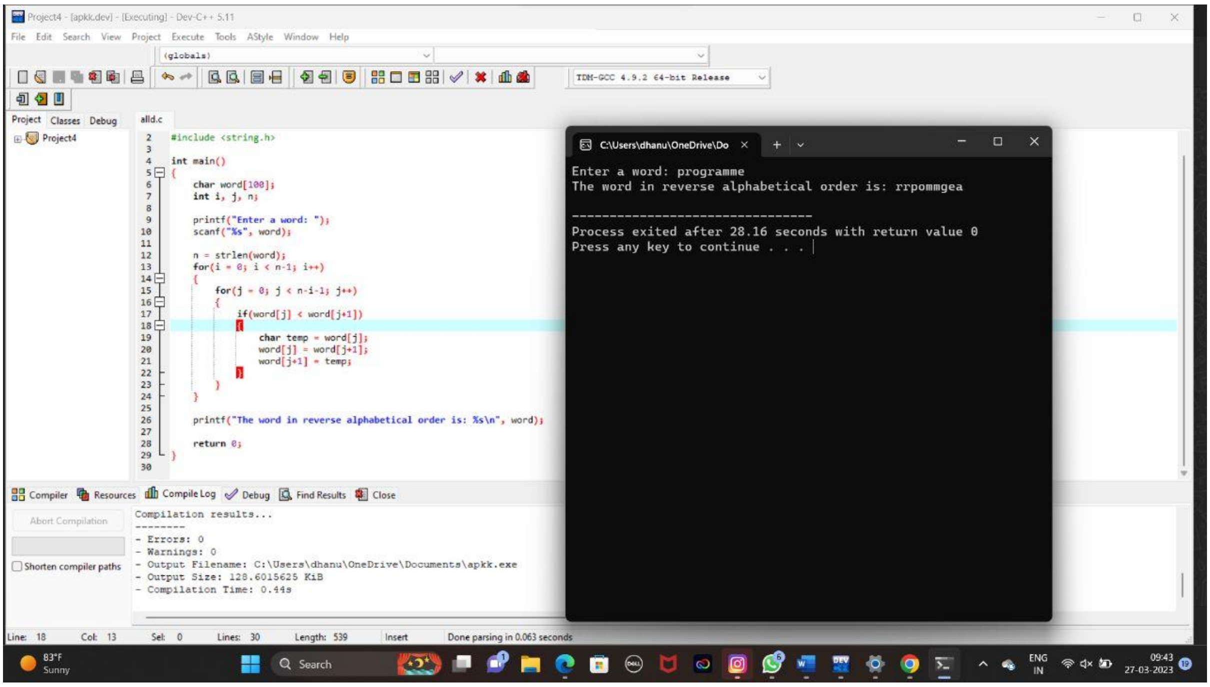
Analytical questions for practice

1.) CEQ40



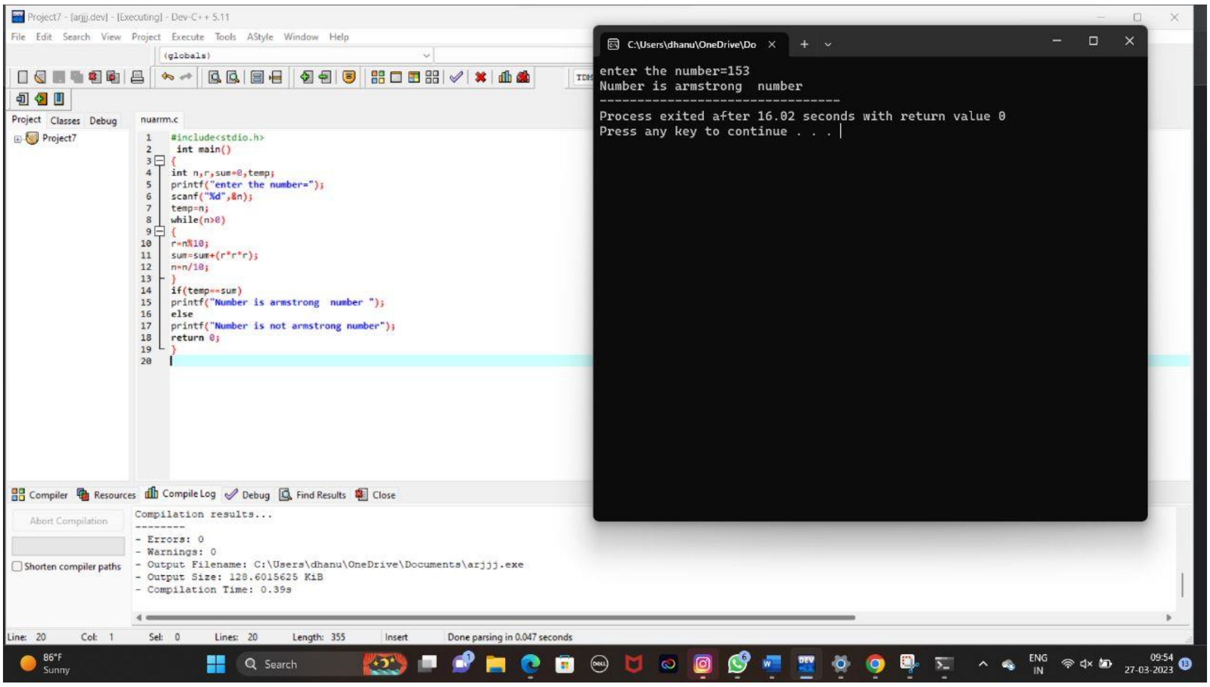
Project4 - [apkk.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
Project4
alld.c
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 18 Col: 13 Sel: 0 Lines: 30 Length: 539 Insert Done parsing in 0.063 seconds
83°F Sunny
Search
ENG IN
09:43 27-03-2023

```c
#include <string.h>

int main()
{
    char word[100];
    int i, j, n;

    printf("Enter a word: ");
    scanf("%s", word);

    n = strlen(word);
    for(i = 0; i < n-1; i++)
    {
        for(j = 0; j < n-i-1; j++)
        {
            if(word[j] < word[j+1])
            {
                char temp = word[j];
                word[j] = word[j+1];
                word[j+1] = temp;
            }
        }
    }

    printf("The word in reverse alphabetical order is: %s\n", word);

    return 0;
}
```

```
Enter a word: programme
The word in reverse alphabetical order is: rrpommgea

--------------------------------
Process exited after 28.16 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\apkk.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.44s
```

2.)CEQ39



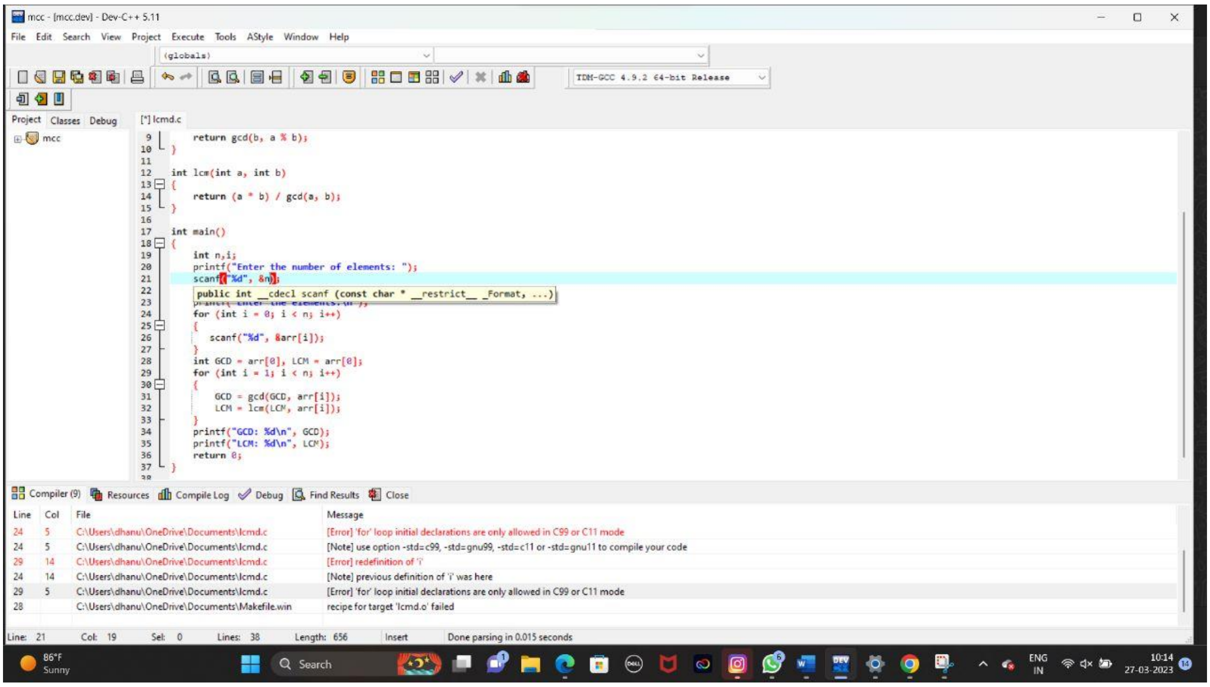
Project7 - [arjjj.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug
Project7
nuarrm.c
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 20 Col: 1 Sel: 0 Lines: 20 Length: 355 Insert Done parsing in 0.047 seconds
86°F Sunny
Search
ENG IN
09:54 27-03-2023

```c
#include<stdio.h>
 int main()
{
int n,r,sum=0,temp;
printf("enter the number=");
scanf("%d",&n);
temp=n;
while(n>0)
{
r=n%10;
sum=sum+(r*r*r);
n=n/10;
}
if(temp==sum)
printf("Number is armstrong  number ");
else
printf("Number is not armstrong number");
return 0;
}
```

```
enter the number=153
Number is armstrong  number
--------------------------------
Process exited after 16.02 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\arjjj.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.39s
```

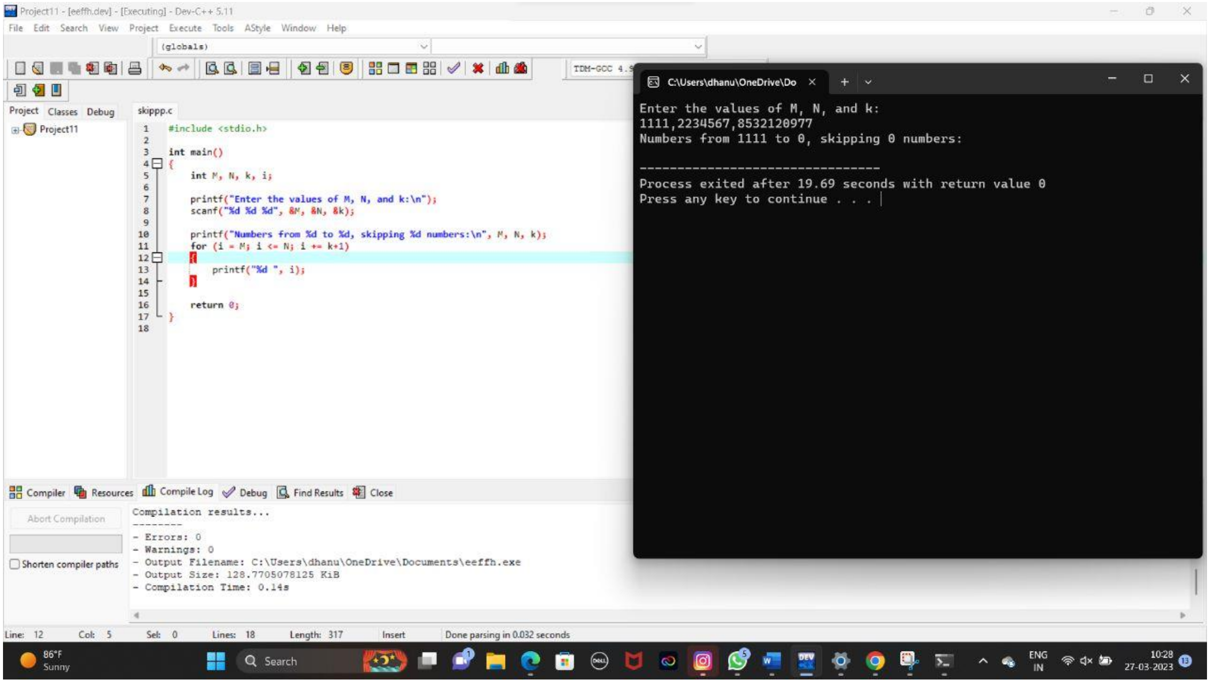
3.)CEQ5


mcc - [mcc.dev] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
mcc
[*] lcmd.c
Compiler (9) Resources Compile Log Debug Find Results Close
Line: 21 Col: 19 Sel: 0 Lines: 38 Length: 656 Insert Done parsing in 0.015 seconds
86°F Sunny
Search
ENG IN
10:14 27-03-2023

```
    return gcd(b, a % b);
}

int lcm(int a, int b)
{
    return (a * b) / gcd(a, b);
}

int main()
{
    int n,i;
    printf("Enter the number of elements: ");
    scanf("%d", &n);
    public int __cdecl scanf (const char * __restrict__ _Format, ...)
    printf("Enter the elements:\n");
    for (int i = 0; i < n; i++)
    {
       scanf("%d", &arr[i]);
    }
    int GCD = arr[0], LCM = arr[0];
    for (int i = 1; i < n; i++)
    {
        GCD = gcd(GCD, arr[i]);
        LCM = lcm(LCM, arr[i]);
    }
    printf("GCD: %d\n", GCD);
    printf("LCM: %d\n", LCM);
    return 0;
}
```

Line	Col	File	Message
24	5	C:\Users\dhanu\OneDrive\Documents\lcmd.c	[Error] 'for' loop initial declarations are only allowed in C99 or C11 mode
24	5	C:\Users\dhanu\OneDrive\Documents\lcmd.c	[Note] use option -std=c99, -std=gnu99, -std=c11 or -std=gnu11 to compile your code
29	14	C:\Users\dhanu\OneDrive\Documents\lcmd.c	[Error] redefinition of 'i'
24	14	C:\Users\dhanu\OneDrive\Documents\lcmd.c	[Note] previous definition of 'i' was here
29	5	C:\Users\dhanu\OneDrive\Documents\lcmd.c	[Error] 'for' loop initial declarations are only allowed in C99 or C11 mode
28		C:\Users\dhanu\OneDrive\Documents\Makefile.win	recipe for target 'lcmd.o' failed

4.)CEQ10

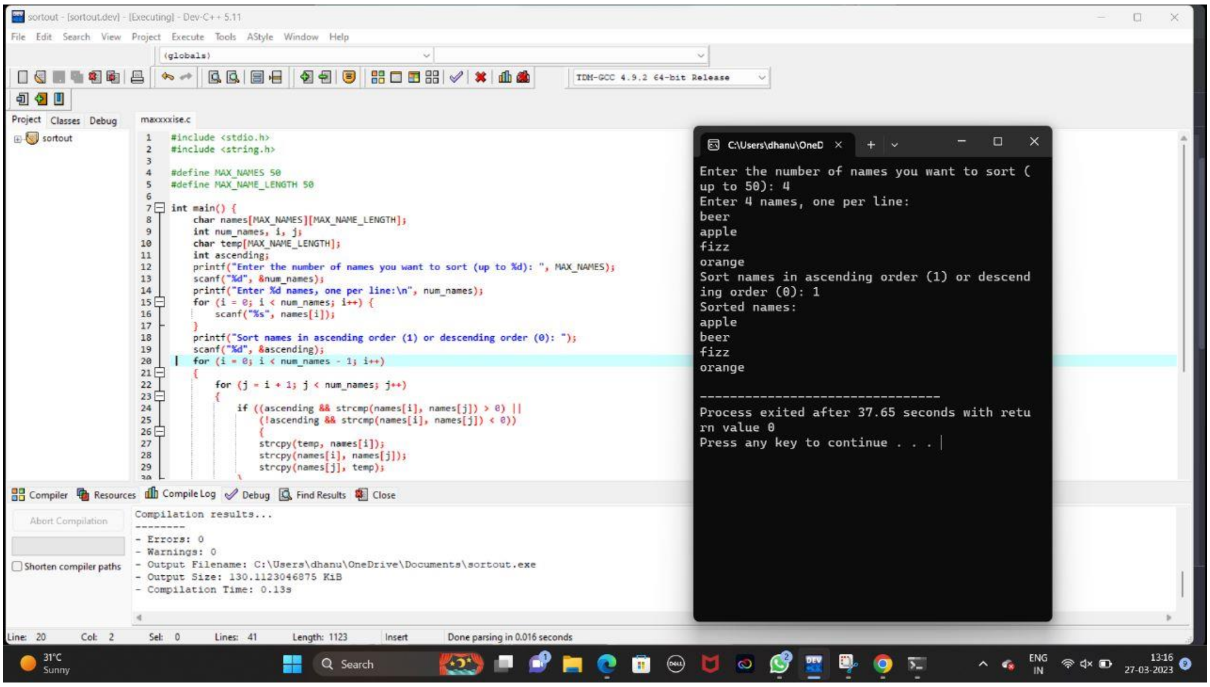

Project11 - [eeffh.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9
Project Classes Debug
Project11
skippp.c
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 12 Col: 5 Sel: 0 Lines: 18 Length: 317 Insert Done parsing in 0.032 seconds
86°F Sunny
Search
ENG IN
10:28 27-03-2023

```
#include <stdio.h>

int main()
{
    int M, N, k, i;

    printf("Enter the values of M, N, and k:\n");
    scanf("%d %d %d", &M, &N, &k);

    printf("Numbers from %d to %d, skipping %d numbers:\n", M, N, k);
    for (i = M; i <= N; i += k+1)
    {
        printf("%d ", i);
    }

    return 0;
}
```

```
Enter the values of M, N, and k:
1111,2234567,8532120977
Numbers from 1111 to 0, skipping 0 numbers:

--------------------------------
Process exited after 19.69 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\eeffh.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.14s
```

5.)CEQ13

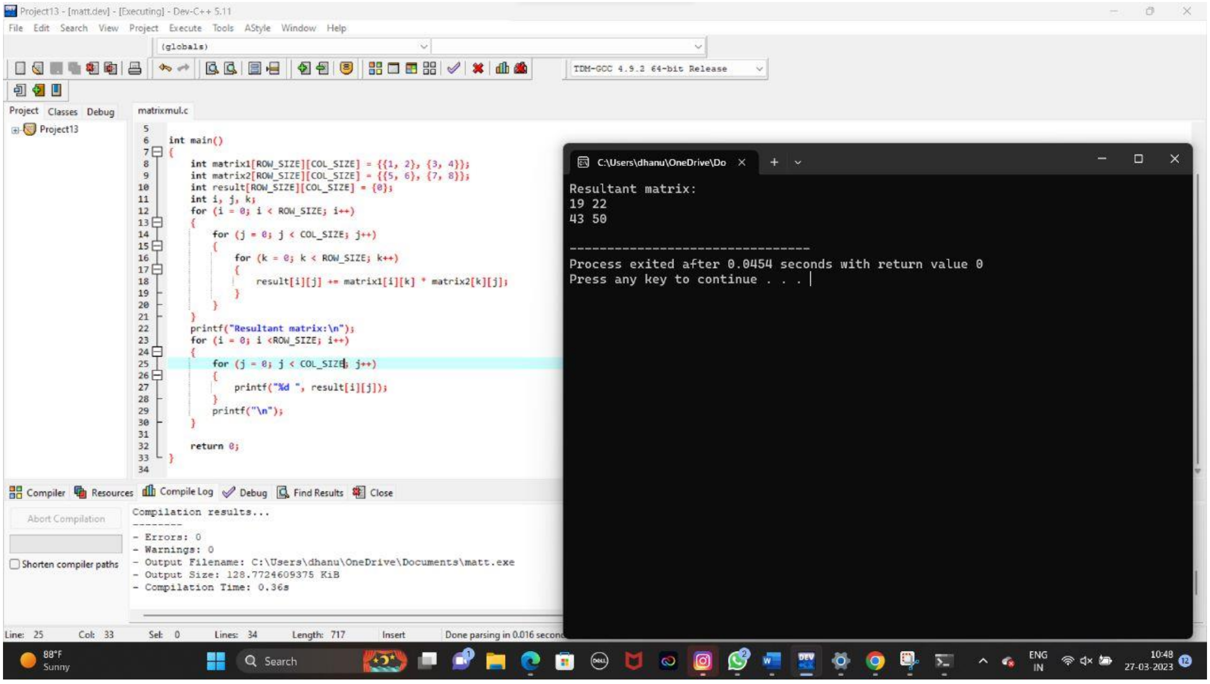

sortout - [sortout.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
sortout
maxxxise.c
C:\Users\dhanu\OneD
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 20 Col: 2 Sel: 0 Lines: 41 Length: 1123 Insert Done parsing in 0.016 seconds
31°C Sunny
Search
ENG IN
13:16 27-03-2023

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

#define MAX_NAMES 50
#define MAX_NAME_LENGTH 50

int main() {
    char names[MAX_NAMES][MAX_NAME_LENGTH];
    int num_names, i, j;
    char temp[MAX_NAME_LENGTH];
    int ascending;
    printf("Enter the number of names you want to sort (up to %d): ", MAX_NAMES);
    scanf("%d", &num_names);
    printf("Enter %d names, one per line:\n", num_names);
    for (i = 0; i < num_names; i++) {
        scanf("%s", names[i]);
    }
    printf("Sort names in ascending order (1) or descending order (0): ");
    scanf("%d", &ascending);
    for (i = 0; i < num_names - 1; i++)
    {
        for (j = i + 1; j < num_names; j++)
        {
            if ((ascending && strcmp(names[i], names[j]) > 0) ||
                (!ascending && strcmp(names[i], names[j]) < 0))
                {
                strcpy(temp, names[i]);
                strcpy(names[i], names[j]);
                strcpy(names[j], temp);
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\sortout.exe
- Output Size: 130.1123046875 KiB
- Compilation Time: 0.13s
```

```
Enter the number of names you want to sort (
up to 50): 4
Enter 4 names, one per line:
beer
apple
fizz
orange
Sort names in ascending order (1) or descend
ing order (0): 1
Sorted names:
apple
beer
fizz
orange

--------------------------------
Process exited after 37.65 seconds with retu
rn value 0
Press any key to continue . . .
```

6.)CEQ14

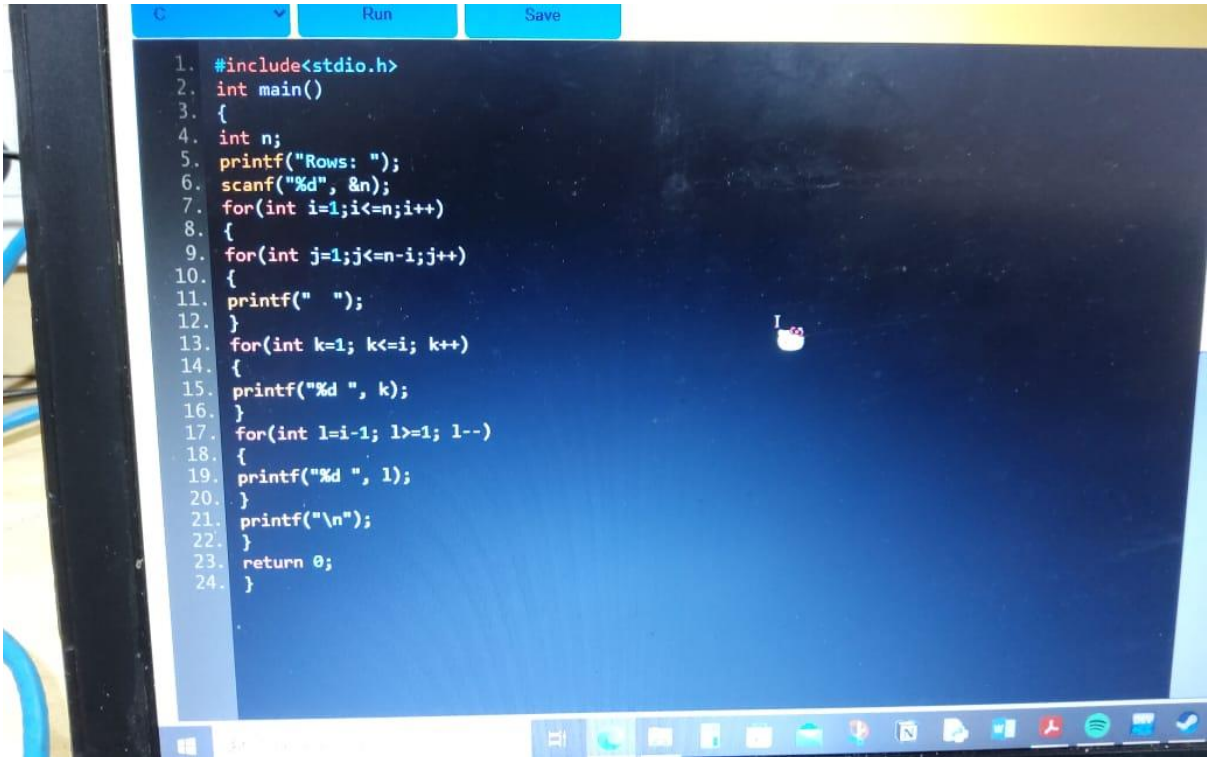

Project13 - [matt.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
Project13
matrixmul.c
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 25 Col: 33 Sel: 0 Lines: 34 Length: 717 Insert Done parsing in 0.016 second
88°F Sunny
Search
ENG IN
10:48 27-03-2023

```c

int main()
{
    int matrix1[ROW_SIZE][COL_SIZE] = {{1, 2}, {3, 4}};
    int matrix2[ROW_SIZE][COL_SIZE] = {{5, 6}, {7, 8}};
    int result[ROW_SIZE][COL_SIZE] = {0};
    int i, j, k;
    for (i = 0; i < ROW_SIZE; i++)
    {
        for (j = 0; j < COL_SIZE; j++)
        {
            for (k = 0; k < ROW_SIZE; k++)
            {
                result[i][j] += matrix1[i][k] * matrix2[k][j];
            }
        }
    }
    printf("Resultant matrix:\n");
    for (i = 0; i <ROW_SIZE; i++)
    {
        for (j = 0; j < COL_SIZE; j++)
        {
            printf("%d ", result[i][j]);
        }
        printf("\n");
    }

    return 0;
}

```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\matt.exe
- Output Size: 128.7724609375 KiB
- Compilation Time: 0.36s
```

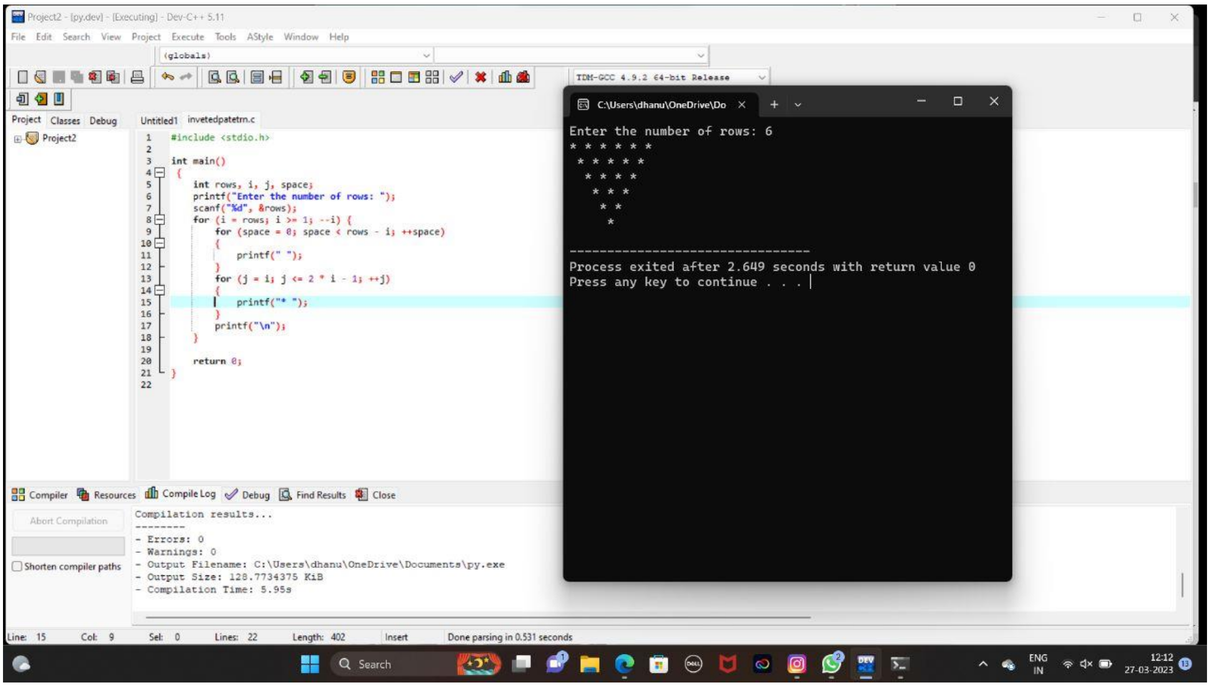
```
Resultant matrix:
19 22
43 50

--------------------------------
Process exited after 0.0454 seconds with return value 0
Press any key to continue . . .
```

7.)CEQ7



```c
#include<stdio.h>
int main()
{
int n;
printf("Rows: ");
scanf("%d", &n);
for(int i=1;i<=n;i++)
{
for(int j=1;j<=n-i;j++)
{
printf("  ");
}
for(int k=1; k<=i; k++)
{
printf("%d ", k);
}
for(int l=i-1; l>=1; l--)
{
printf("%d ", l);
}
printf("\n");
}
return 0;
}
```

8.)CEQ18

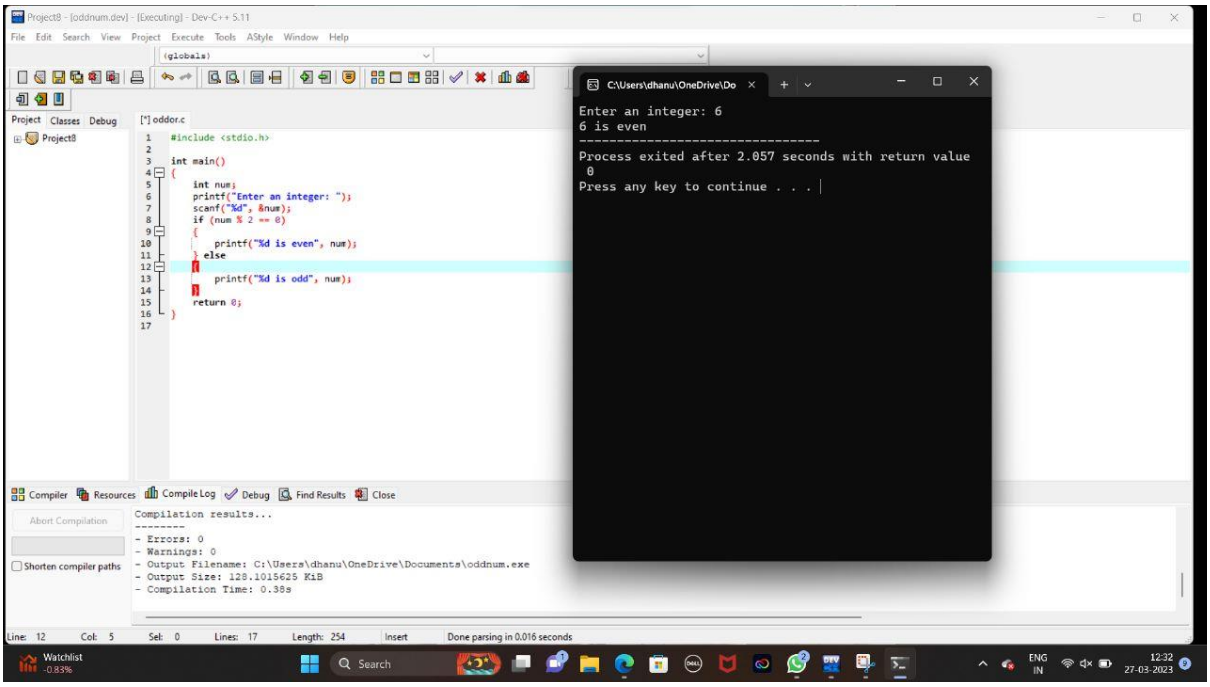

Project2 - [py.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
Untitled1 invetedpatetrn.c
Project2
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 15 Col: 9 Sel: 0 Lines: 22 Length: 402 Insert Done parsing in 0.531 seconds
Search
ENG IN
12:12
27-03-2023

```c
#include <stdio.h>

int main()
 {
    int rows, i, j, space;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = rows; i >= 1; --i) {
        for (space = 0; space < rows - i; ++space)
        {
            printf(" ");
        }
        for (j = i; j <= 2 * i - 1; ++j)
        {
            printf("* ");
        }
        printf("\n");
    }

    return 0;
}
```

```
Enter the number of rows: 6
* * * * * *
 * * * * *
  * * * *
   * * *
    * *
     *

--------------------------------
Process exited after 2.649 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\py.exe
- Output Size: 128.7734375 KiB
- Compilation Time: 5.95s
```

9.)CEQ36

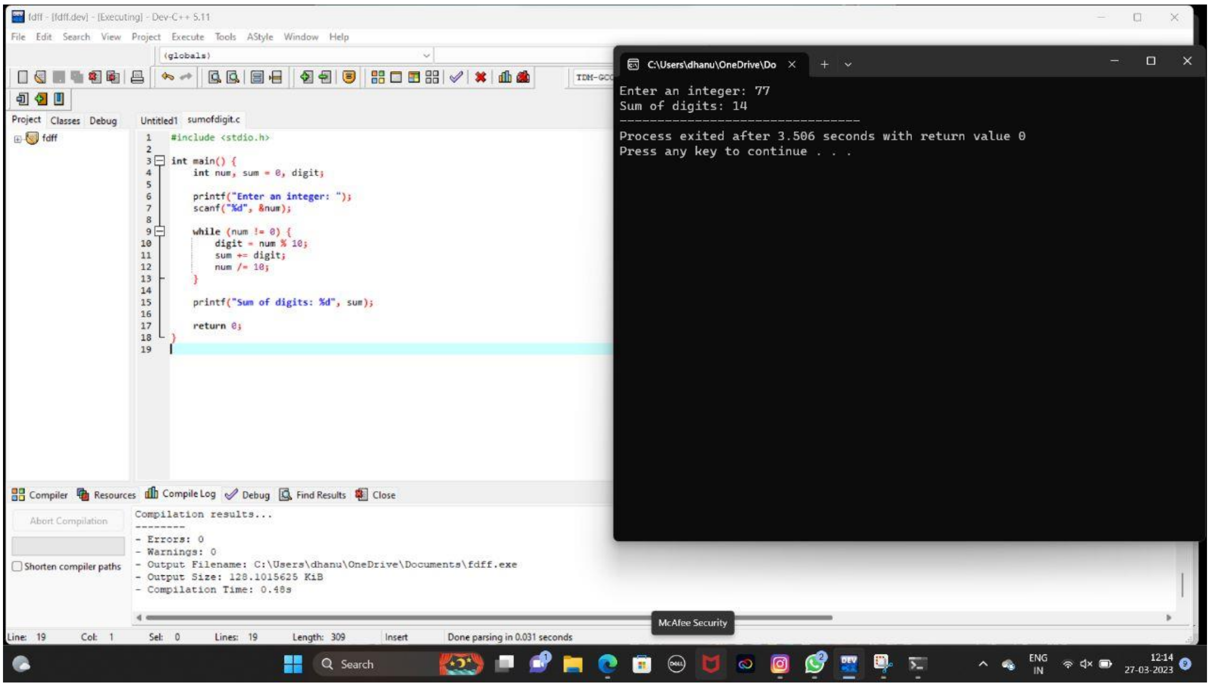

Project8 - [oddnum.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug
Project8
[*] oddor.c
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 12 Col: 5 Sel: 0 Lines: 17 Length: 254 Insert Done parsing in 0.016 seconds
Watchlist -0.83%
Search
ENG IN 12:32 27-03-2023

```c
#include <stdio.h>

int main()
{
    int num;
    printf("Enter an integer: ");
    scanf("%d", &num);
    if (num % 2 == 0)
    {
        printf("%d is even", num);
    } else
    {
        printf("%d is odd", num);
    }
    return 0;
}
```

```
Enter an integer: 6
6 is even
--------------------------------
Process exited after 2.057 seconds with return value
 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\oddnum.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.38s
```

10.)CEQ43

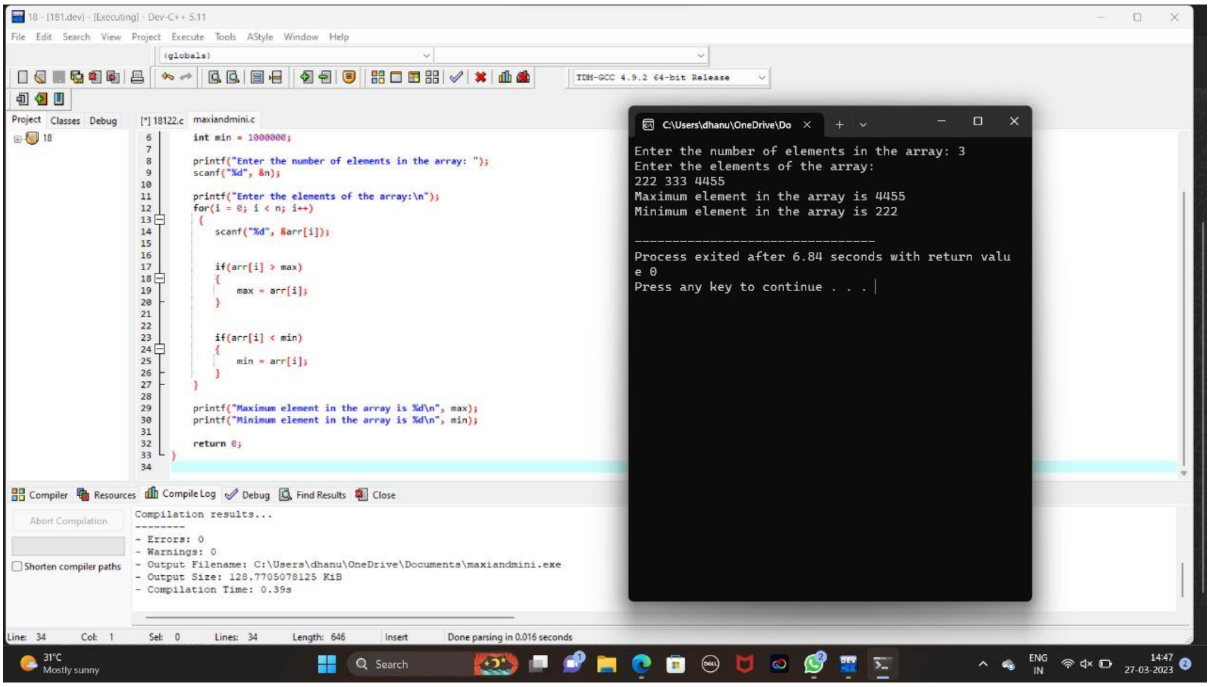

fdff - [fdff.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC
Project Classes Debug
fdff
Untitled1 sumofdigit.c
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
McAfee Security
Line: 19 Col: 1 Sel: 0 Lines: 19 Length: 309 Insert Done parsing in 0.031 seconds
Search
ENG IN 12:14 27-03-2023

```c
#include <stdio.h>

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

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

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

    printf("Sum of digits: %d", sum);

    return 0;
}
```

```
Enter an integer: 77
Sum of digits: 14
--------------------------------
Process exited after 3.506 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\fdff.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.48s
```

11.)CMQ11

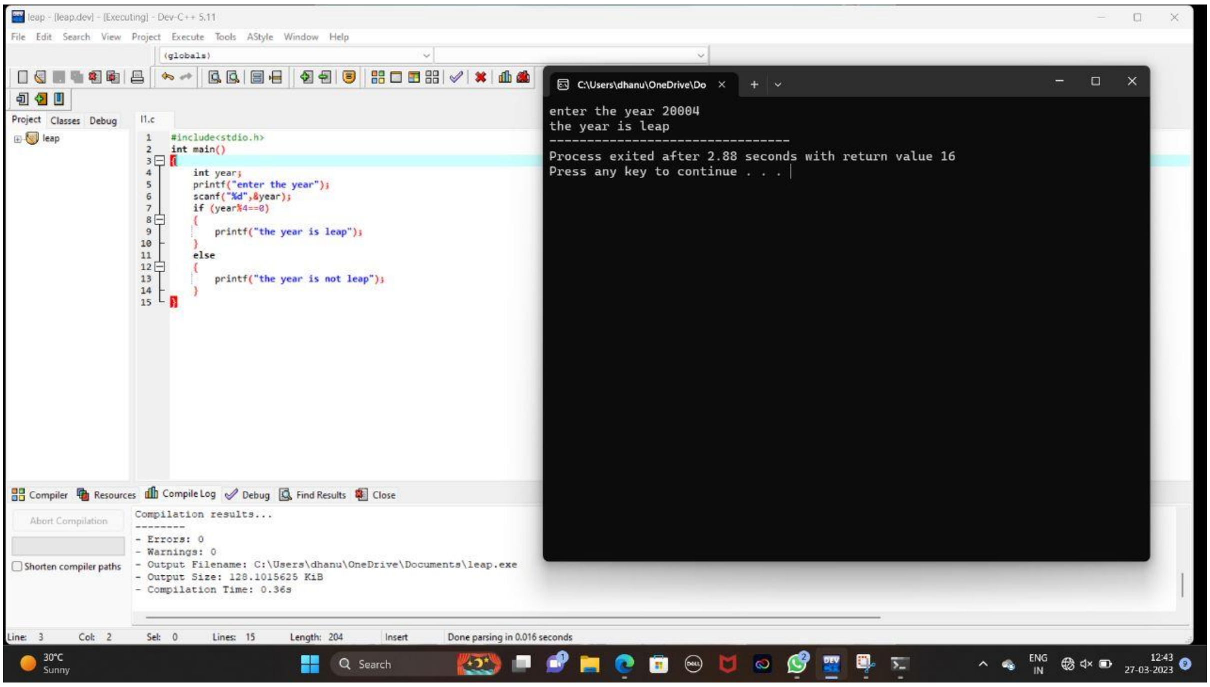


```c
    int min = 1000000;

    printf("Enter the number of elements in the array: ");
    scanf("%d", &n);

    printf("Enter the elements of the array:\n");
    for(i = 0; i < n; i++)
     {
        scanf("%d", &arr[i]);


        if(arr[i] > max)
        {
            max = arr[i];
        }


        if(arr[i] < min)
        {
            min = arr[i];
        }
    }

    printf("Maximum element in the array is %d\n", max);
    printf("Minimum element in the array is %d\n", min);

    return 0;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\maxiandmini.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.39s
```

```
Enter the number of elements in the array: 3
Enter the elements of the array:
222 333 4455
Maximum element in the array is 4455
Minimum element in the array is 222

--------------------------------
Process exited after 6.84 seconds with return valu
e 0
Press any key to continue . . .
```

12.)CMQ1

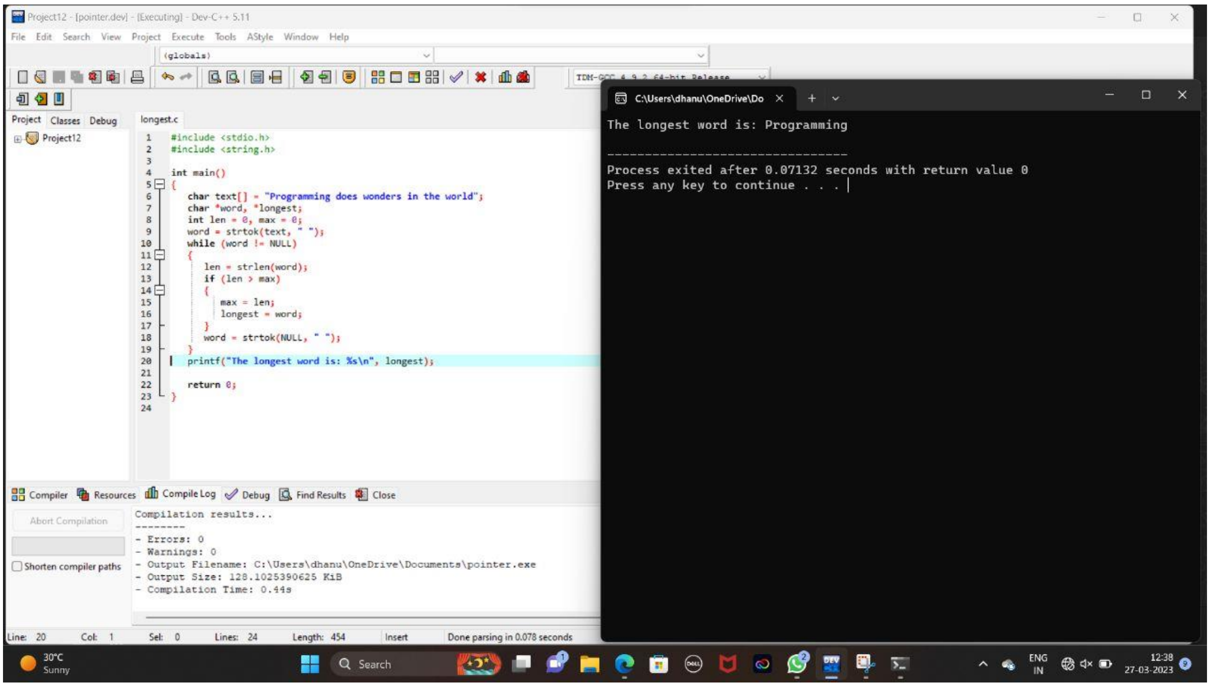


```c
#include<stdio.h>
int main()
{
    int year;
    printf("enter the year");
    scanf("%d",&year);
    if (year%4==0)
    {
        printf("the year is leap");
    }
    else
    {
        printf("the year is not leap");
    }
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\leap.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.36s
```

```
enter the year 20004
the year is leap
--------------------------------
Process exited after 2.88 seconds with return value 16
Press any key to continue . . .
```

13.)CMQ6

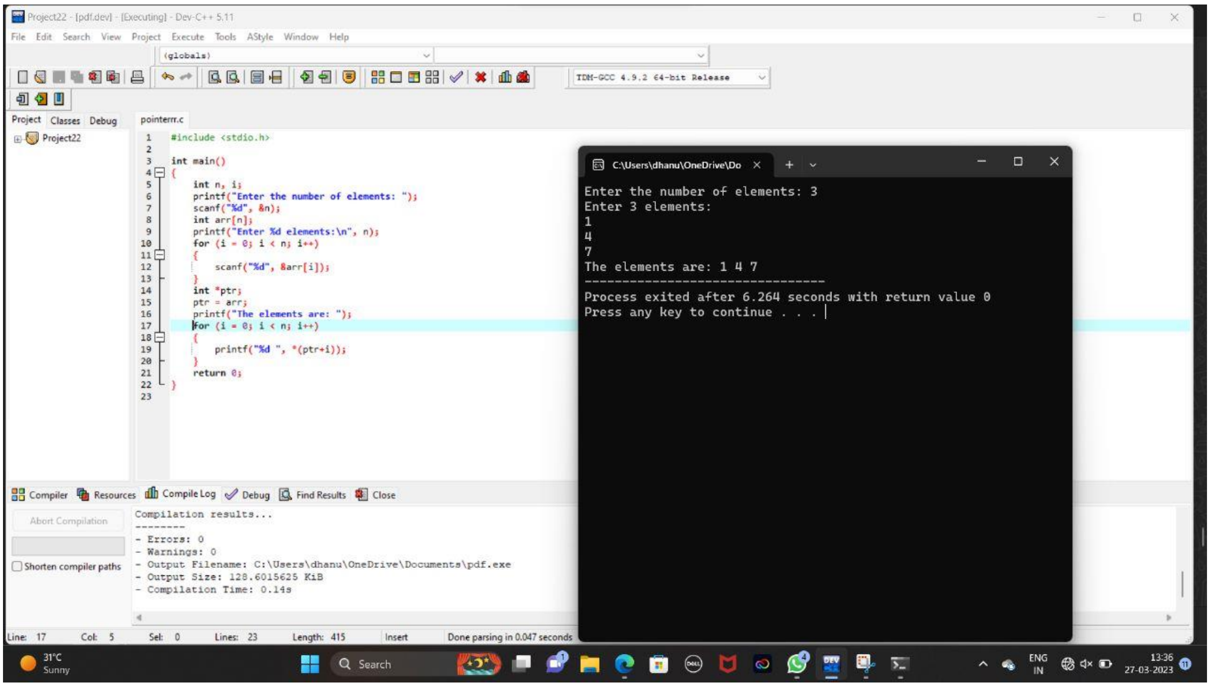

Project12 - [pointer.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
Project12
longest.c
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 20 Col: 1 Sel: 0 Lines: 24 Length: 454 Insert Done parsing in 0.078 seconds
C:\Users\dhanu\OneDrive\Do
30°C Sunny
Search
ENG IN
12:38 27-03-2023

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

int main()
{
    char text[] = "Programming does wonders in the world";
    char *word, *longest;
    int len = 0, max = 0;
    word = strtok(text, " ");
    while (word != NULL)
    {
        len = strlen(word);
        if (len > max)
        {
            max = len;
            longest = word;
        }
        word = strtok(NULL, " ");
    }
    printf("The longest word is: %s\n", longest);

    return 0;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\pointer.exe
- Output Size: 128.1025390625 KiB
- Compilation Time: 0.44s
```

```
The longest word is: Programming

--------------------------------
Process exited after 0.07132 seconds with return value 0
Press any key to continue . . .
```

14.)CMQ14

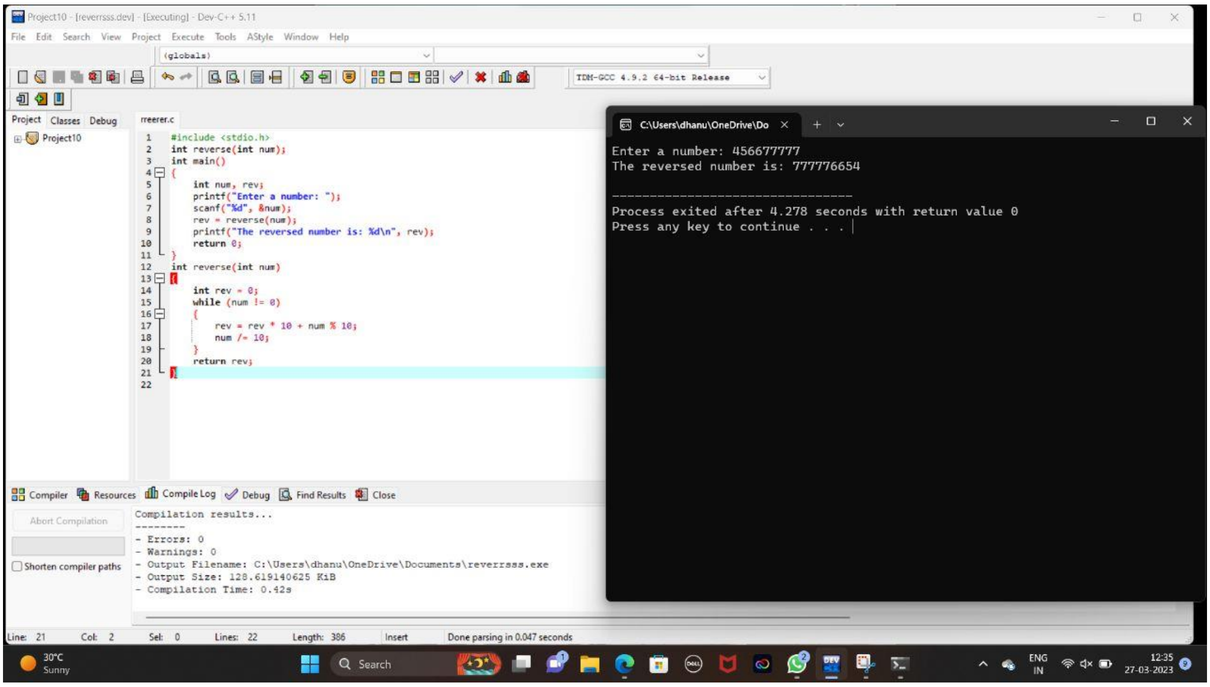

Project22 - [pdf.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
Project22
pointerr.c
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 17 Col: 5 Sel: 0 Lines: 23 Length: 415 Insert Done parsing in 0.047 seconds
C:\Users\dhanu\OneDrive\Do
31°C Sunny
Search
ENG IN
13:36 27-03-2023

```c
#include <stdio.h>

int main()
{
    int n, i;
    printf("Enter the number of elements: ");
    scanf("%d", &n);
    int arr[n];
    printf("Enter %d elements:\n", n);
    for (i = 0; i < n; i++)
    {
        scanf("%d", &arr[i]);
    }
    int *ptr;
    ptr = arr;
    printf("The elements are: ");
    for (i = 0; i < n; i++)
    {
        printf("%d ", *(ptr+i));
    }
    return 0;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\pdf.exe
- Output Size: 128.6015625 KiB
- Compilation Time: 0.14s
```

```
Enter the number of elements: 3
Enter 3 elements:
1
4
7
The elements are: 1 4 7
--------------------------------
Process exited after 6.264 seconds with return value 0
Press any key to continue . . .
```

15.)CMQ20

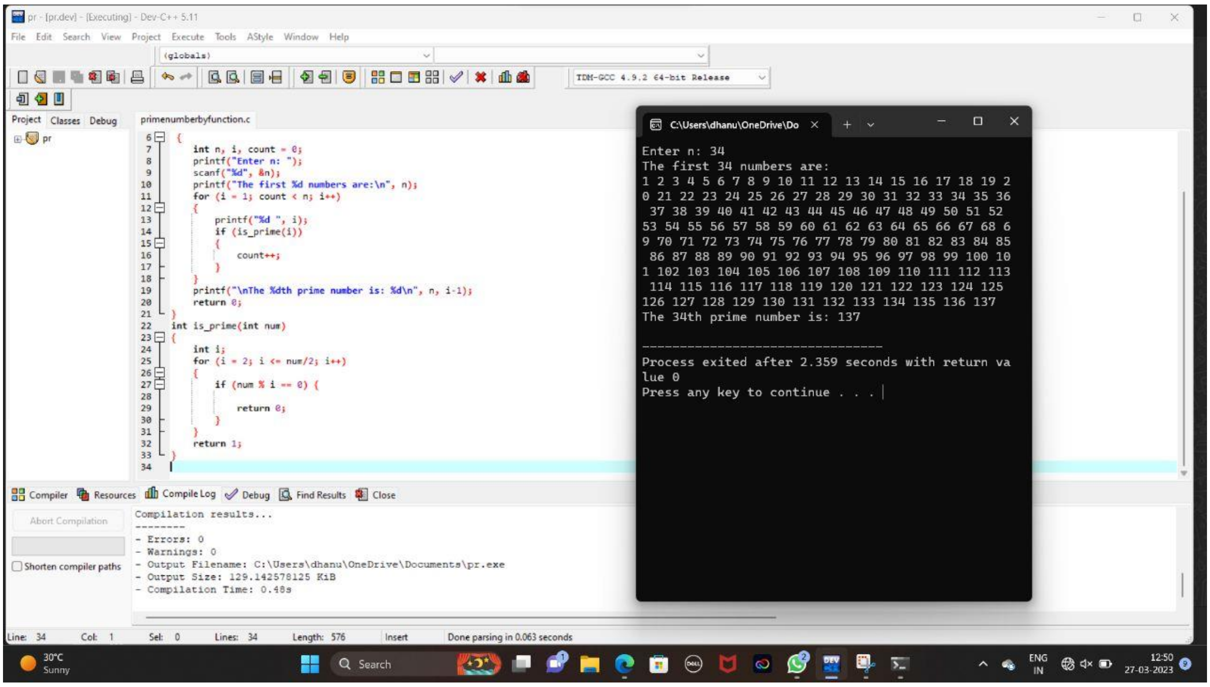

Project10 - [reverrsss.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
Project10
rreerer.c
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 21 Col: 2 Sel: 0 Lines: 22 Length: 386 Insert Done parsing in 0.047 seconds
30°C Sunny
Search
ENG IN
12:35 27-03-2023

```c
#include <stdio.h>
int reverse(int num);
int main()
{
    int num, rev;
    printf("Enter a number: ");
    scanf("%d", &num);
    rev = reverse(num);
    printf("The reversed number is: %d\n", rev);
    return 0;
}
int reverse(int num)
{
    int rev = 0;
    while (num != 0)
    {
        rev = rev * 10 + num % 10;
        num /= 10;
    }
    return rev;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\reverrsss.exe
- Output Size: 128.619140625 KiB
- Compilation Time: 0.42s
```

```
Enter a number: 456677777
The reversed number is: 777776654

--------------------------------
Process exited after 4.278 seconds with return value 0
Press any key to continue . . .
```

16.)CHQ4

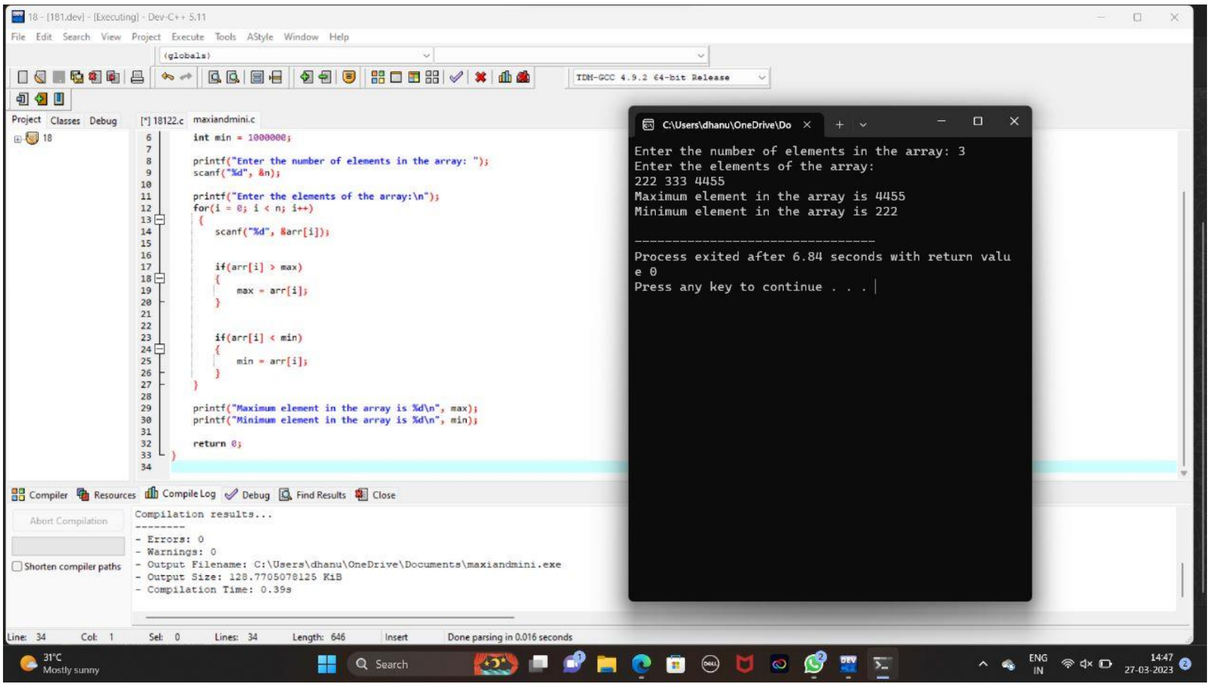

pr - [pr.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
pr
primenumberbyfunction.c
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 34 Col: 1 Sel: 0 Lines: 34 Length: 576 Insert Done parsing in 0.063 seconds
30°C Sunny
Search
ENG IN
12:50 27-03-2023

```c
{
    int n, i, count = 0;
    printf("Enter n: ");
    scanf("%d", &n);
    printf("The first %d numbers are:\n", n);
    for (i = 1; count < n; i++)
    {
        printf("%d ", i);
        if (is_prime(i))
        {
            count++;
        }
    }
    printf("\nThe %dth prime number is: %d\n", n, i-1);
    return 0;
}
int is_prime(int num)
{
    int i;
    for (i = 2; i <= num/2; i++)
    {
        if (num % i == 0) {

            return 0;
        }
    }
    return 1;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\pr.exe
- Output Size: 129.142578125 KiB
- Compilation Time: 0.48s
```

```
Enter n: 34
The first 34 numbers are:
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 2
0 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 6
9 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85
 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 10
1 102 103 104 105 106 107 108 109 110 111 112 113
 114 115 116 117 118 119 120 121 122 123 124 125
126 127 128 129 130 131 132 133 134 135 136 137
The 34th prime number is: 137

--------------------------------
Process exited after 2.359 seconds with return va
lue 0
Press any key to continue . . .
```

17.)CHQ11



18 - [181.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
18
[*] 18122.c maxiandmini.c
C:\Users\dhanu\OneDrive\Do
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
31°C
Mostly sunny
Search
ENG
IN
14:47
27-03-2023

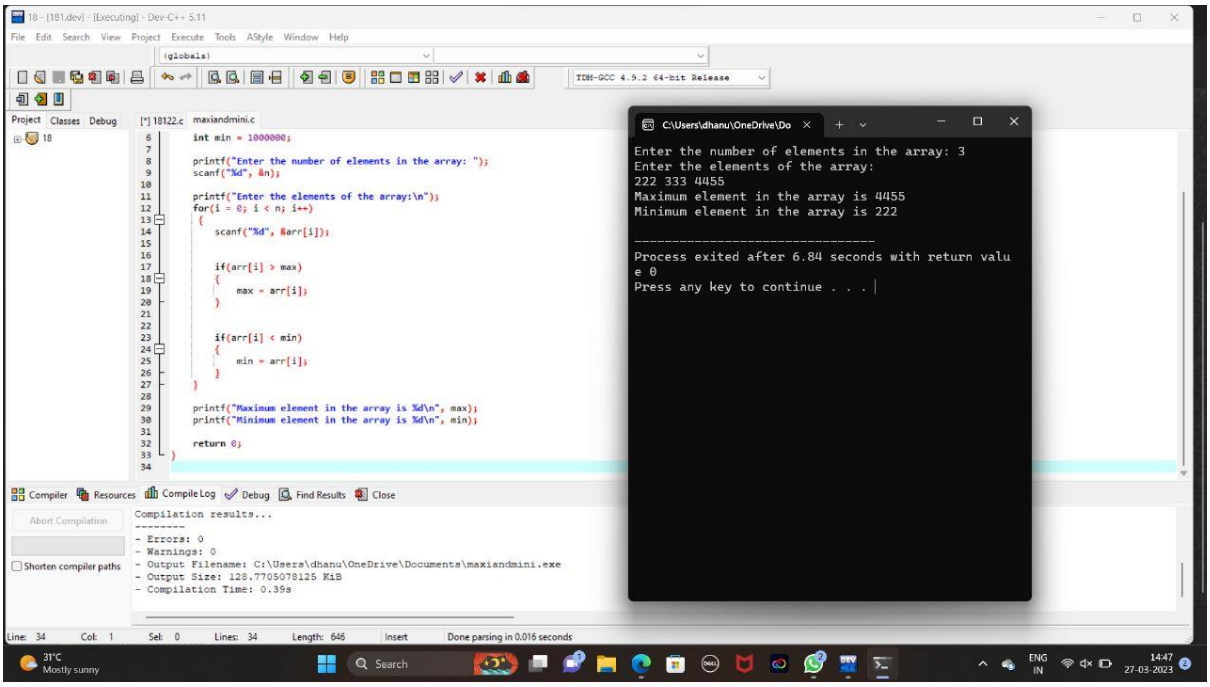
```c
    int min = 1000000;

    printf("Enter the number of elements in the array: ");
    scanf("%d", &n);

    printf("Enter the elements of the array:\n");
    for(i = 0; i < n; i++)
    {
        scanf("%d", &arr[i]);


        if(arr[i] > max)
        {
            max = arr[i];
        }


        if(arr[i] < min)
        {
            min = arr[i];
        }
    }

    printf("Maximum element in the array is %d\n", max);
    printf("Minimum element in the array is %d\n", min);

    return 0;
}
```

```
Enter the number of elements in the array: 3
Enter the elements of the array:
222 333 4455
Maximum element in the array is 4455
Minimum element in the array is 222

--------------------------------
Process exited after 6.84 seconds with return valu
e 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\maxiandmini.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.39s
```

```
Line: 34    Col: 1    Sel: 0    Lines: 34    Length: 646    Insert    Done parsing in 0.016 seconds
```

18.)CHQ11



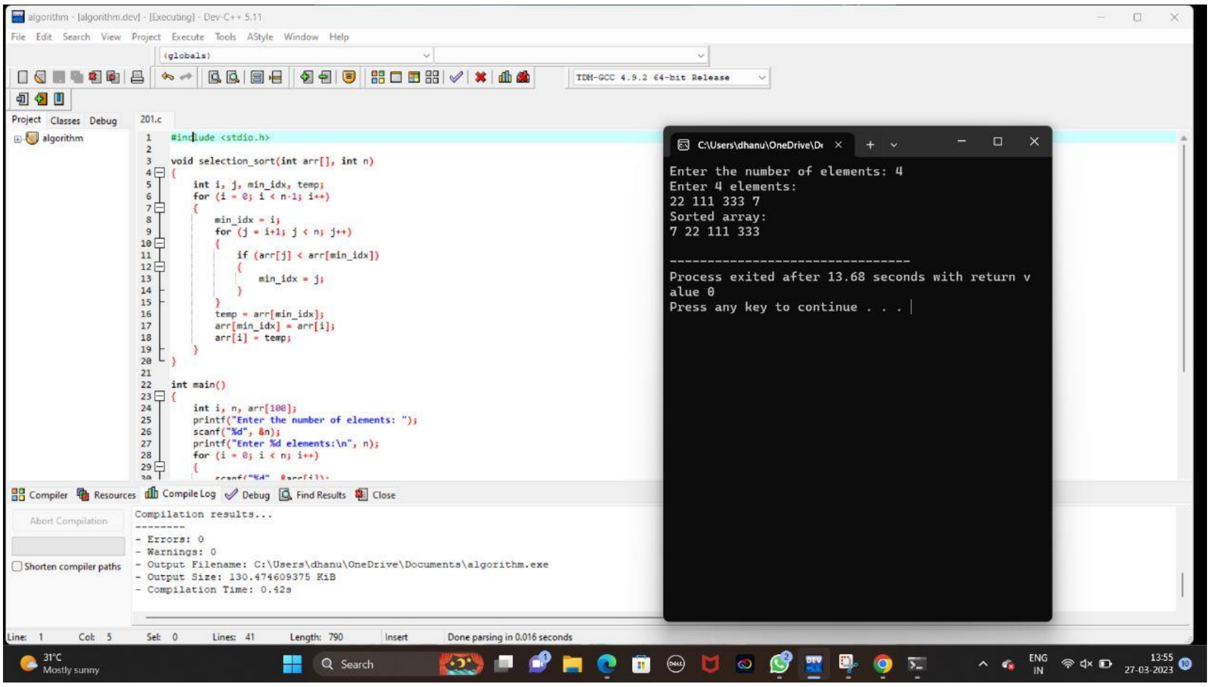
```c
    int min = 1000000;

    printf("Enter the number of elements in the array: ");
    scanf("%d", &n);

    printf("Enter the elements of the array:\n");
    for(i = 0; i < n; i++)
    {
        scanf("%d", &arr[i]);


        if(arr[i] > max)
        {
            max = arr[i];
        }


        if(arr[i] < min)
        {
            min = arr[i];
        }
    }

    printf("Maximum element in the array is %d\n", max);
    printf("Minimum element in the array is %d\n", min);

    return 0;
}
```

```
Enter the number of elements in the array: 3
Enter the elements of the array:
222 333 4455
Maximum element in the array is 4455
Minimum element in the array is 222

--------------------------------
Process exited after 6.84 seconds with return valu
e 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\maxiandmini.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.39s
```

```
Line: 34    Col: 1    Sel: 0    Lines: 34    Length: 646    Insert    Done parsing in 0.016 seconds
```

19.)

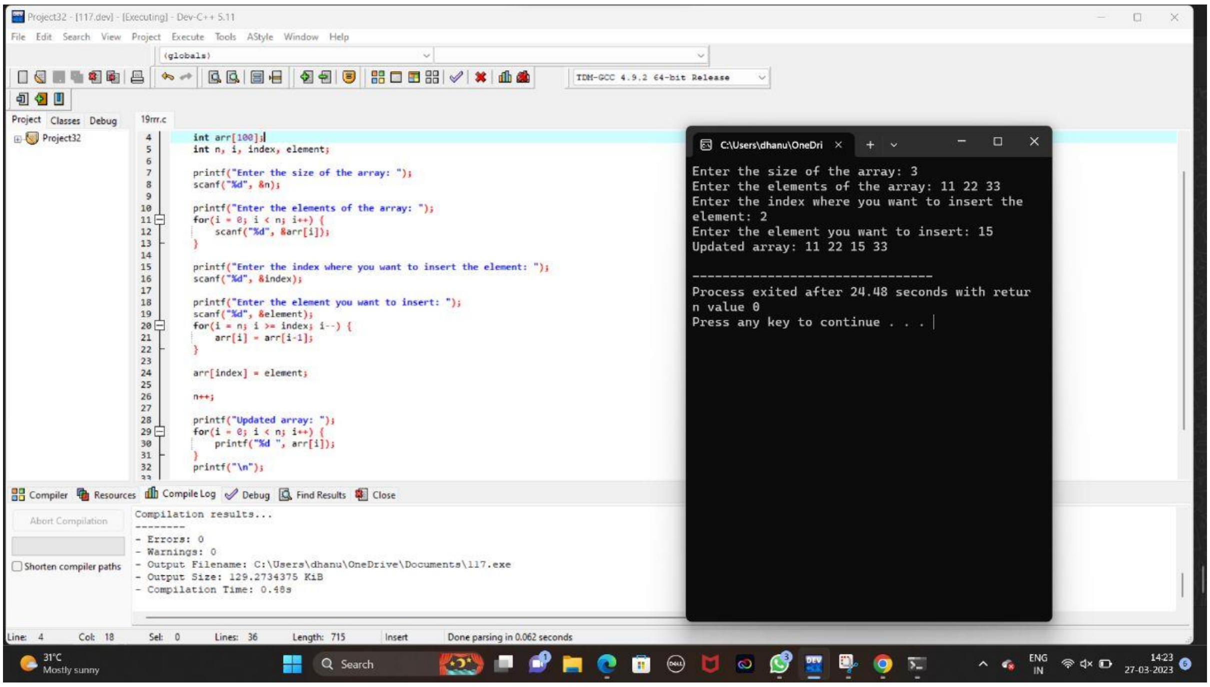

algorithm - [algorithm.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
algorithm
201.c
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
C:\Users\dhanu\OneDrive\Dc
Line: 1 Col: 5 Sel: 0 Lines: 41 Length: 790 Insert Done parsing in 0.016 seconds
31°C Mostly sunny
Search
ENG IN
13:55 27-03-2023

```c
#include <stdio.h>

void selection_sort(int arr[], int n)
{
    int i, j, min_idx, temp;
    for (i = 0; i < n-1; i++)
    {
        min_idx = i;
        for (j = i+1; j < n; j++)
        {
            if (arr[j] < arr[min_idx])
            {
                min_idx = j;
            }
        }
        temp = arr[min_idx];
        arr[min_idx] = arr[i];
        arr[i] = temp;
    }
}

int main()
{
    int i, n, arr[100];
    printf("Enter the number of elements: ");
    scanf("%d", &n);
    printf("Enter %d elements:\n", n);
    for (i = 0; i < n; i++)
    {
        scanf("%d", &arr[i]);
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\algorithm.exe
- Output Size: 130.474609375 KiB
- Compilation Time: 0.42s
```

```
Enter the number of elements: 4
Enter 4 elements:
22 111 333 7
Sorted array:
7 22 111 333

--------------------------------
Process exited after 13.68 seconds with return v
alue 0
Press any key to continue . . .
```

20.)CHQ10


Project32 - [117.dev] - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
TDM-GCC 4.9.2 64-bit Release
Project Classes Debug
Project32
19rrr.c
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
C:\Users\dhanu\OneDri
Line: 4 Col: 18 Sel: 0 Lines: 36 Length: 715 Insert Done parsing in 0.062 seconds
31°C Mostly sunny
Search
ENG IN
14:23 27-03-2023

```c
    int arr[100];
    int n, i, index, element;

    printf("Enter the size of the array: ");
    scanf("%d", &n);

    printf("Enter the elements of the array: ");
    for(i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    printf("Enter the index where you want to insert the element: ");
    scanf("%d", &index);

    printf("Enter the element you want to insert: ");
    scanf("%d", &element);
    for(i = n; i >= index; i--) {
        arr[i] = arr[i-1];
    }

    arr[index] = element;

    n++;

    printf("Updated array: ");
    for(i = 0; i < n; i++) {
        printf("%d ", arr[i]);
    }
    printf("\n");
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\dhanu\OneDrive\Documents\117.exe
- Output Size: 129.2734375 KiB
- Compilation Time: 0.48s
```

```
Enter the size of the array: 3
Enter the elements of the array: 11 22 33
Enter the index where you want to insert the
element: 2
Enter the element you want to insert: 15
Updated array: 11 22 15 33

--------------------------------
Process exited after 24.48 seconds with retur
n value 0
Press any key to continue . . .
```