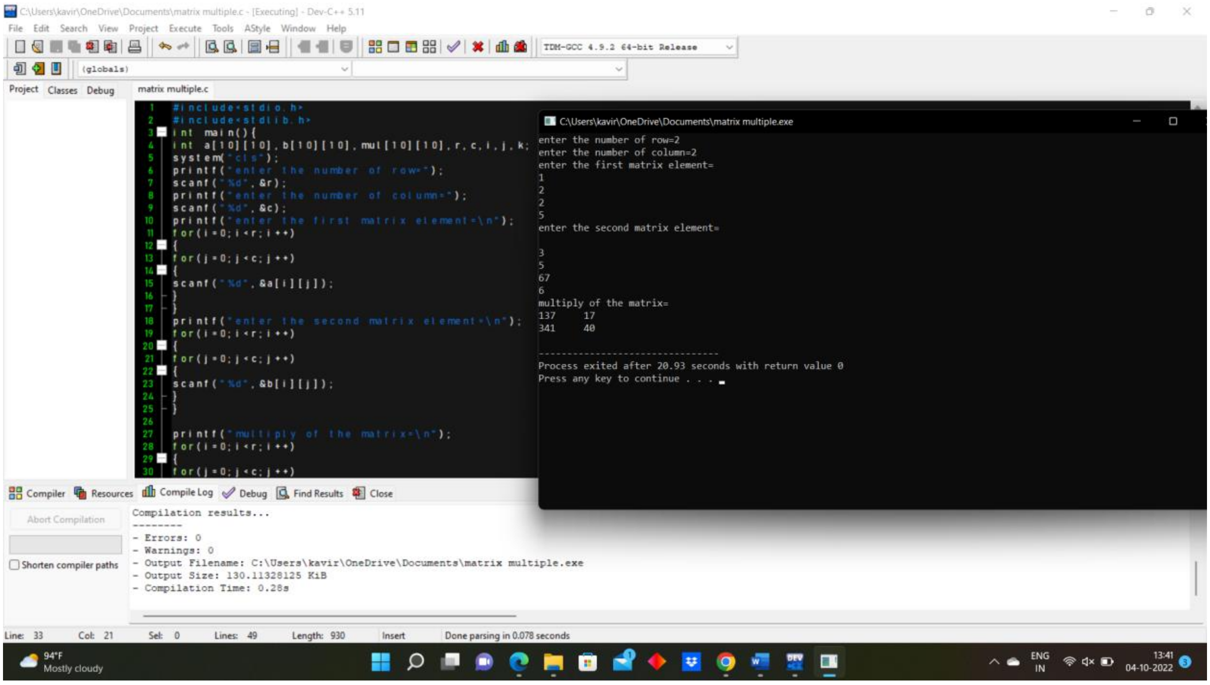
MARTIX MULTIPLICATION:::


C:\Users\kavir\OneDrive\Documents\matrix multiple.c - [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
matrix multiple.c
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Line: 33 Col: 21 Sel: 0 Lines: 49 Length: 930 Insert Done parsing in 0.078 seconds
94°F Mostly cloudy
ENG IN
13:41 04-10-2022

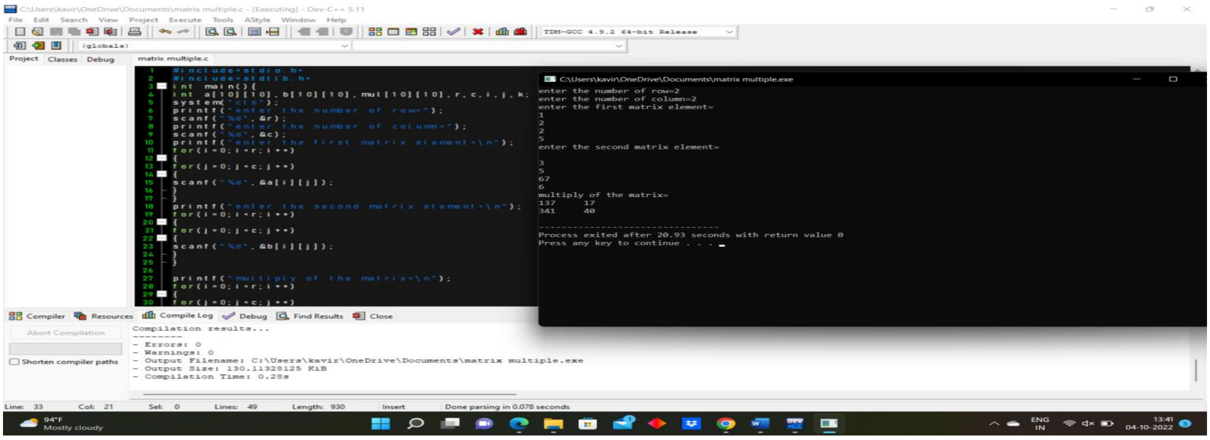
```c
#include<stdio.h>
#include<stdlib.h>
int main(){
int a[10][10],b[10][10],mul[10][10],r,c,i,j,k;
system("cls");
printf("enter the number of row=");
scanf("%d",&r);
printf("enter the number of column=");
scanf("%d",&c);
printf("enter the first matrix element=\n");
for(i=0;i<r;i++)
{
for(j=0;j<c;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("enter the second matrix element=\n");
for(i=0;i<r;i++)
{
for(j=0;j<c;j++)
{
scanf("%d",&b[i][j]);
}
}

printf("multiply of the matrix=\n");
for(i=0;i<r;i++)
{
for(j=0;j<c;j++)
```

C:\Users\kavir\OneDrive\Documents\matrix multiple.exe

```
enter the number of row=2
enter the number of column=2
enter the first matrix element=
1
2
2
5
enter the second matrix element=

3
5
67
6
multiply of the matrix=
137     17
341     40

--------------------------------
Process exited after 20.93 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavir\OneDrive\Documents\matrix multiple.exe
- Output Size: 130.11328125 KiB
- Compilation Time: 0.28s
```

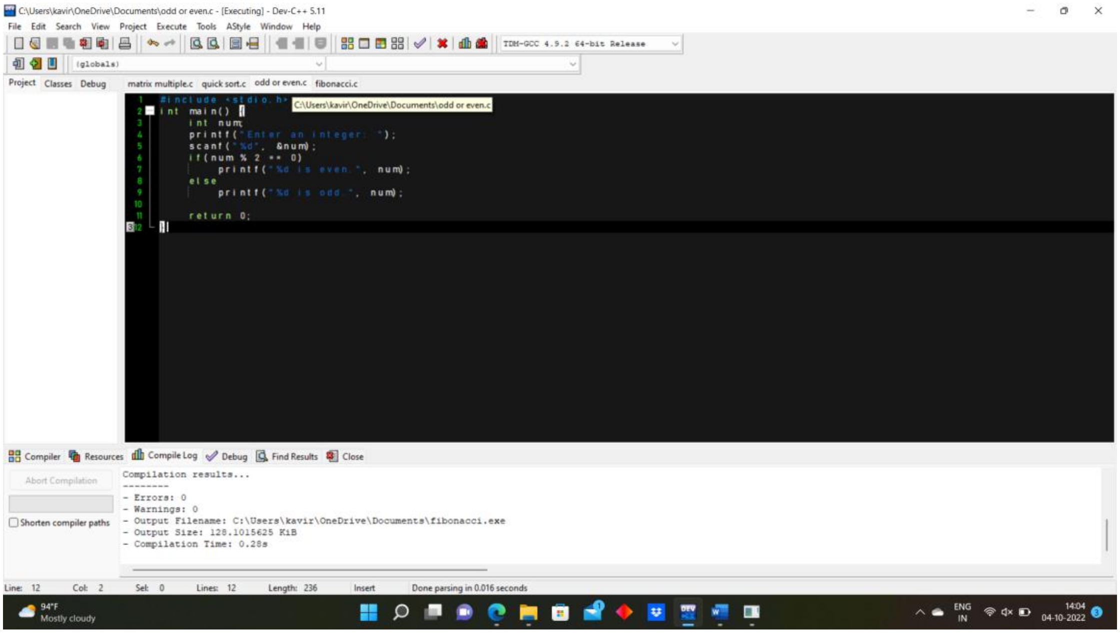
Quick sort:::



C:\Users\kavir\OneDrive\Documents\matrix multiple.exe

```
enter the number of row=2
enter the number of column=2
enter the first matrix element=
1
2
2
5
enter the second matrix element=

3
5
67
6
multiply of the matrix=
137     17
341     40

--------------------------------
Process exited after 20.93 seconds with return value 0
Press any key to continue . . .
```

Odd or Even::



C:\Users\kavir\OneDrive\Documents\odd or even.c - [Executing] - Dev-C++ 5.11

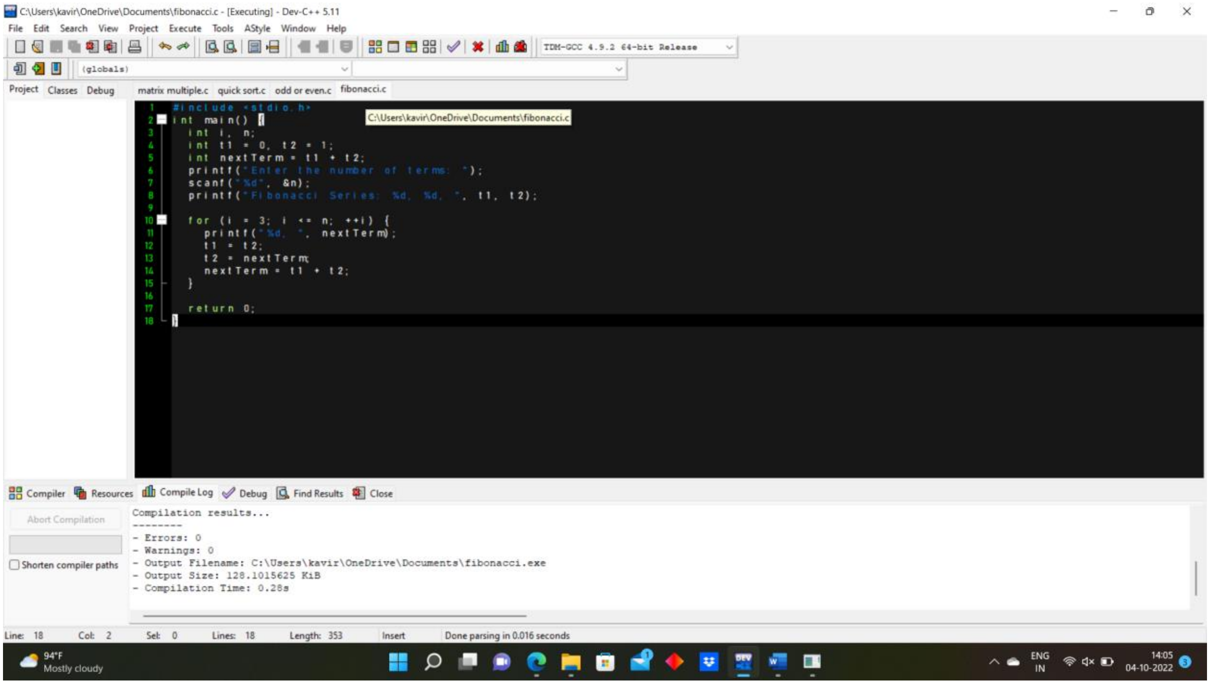
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
matrix multiple.c quick sort.c odd or even.c fibonacci.c
C:\Users\kavir\OneDrive\Documents\odd or even.c
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
94°F Mostly cloudy
ENG IN
14:04 04-10-2022

```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;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavir\OneDrive\Documents\fibonacci.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.28s
```

Line: 12 Col: 2 Sel: 0 Lines: 12 Length: 236 Insert Done parsing in 0.016 seconds

Fibonacci series::



C:\Users\kavir\OneDrive\Documents\fibonacci.c - [Executing] - Dev-C++ 5.11

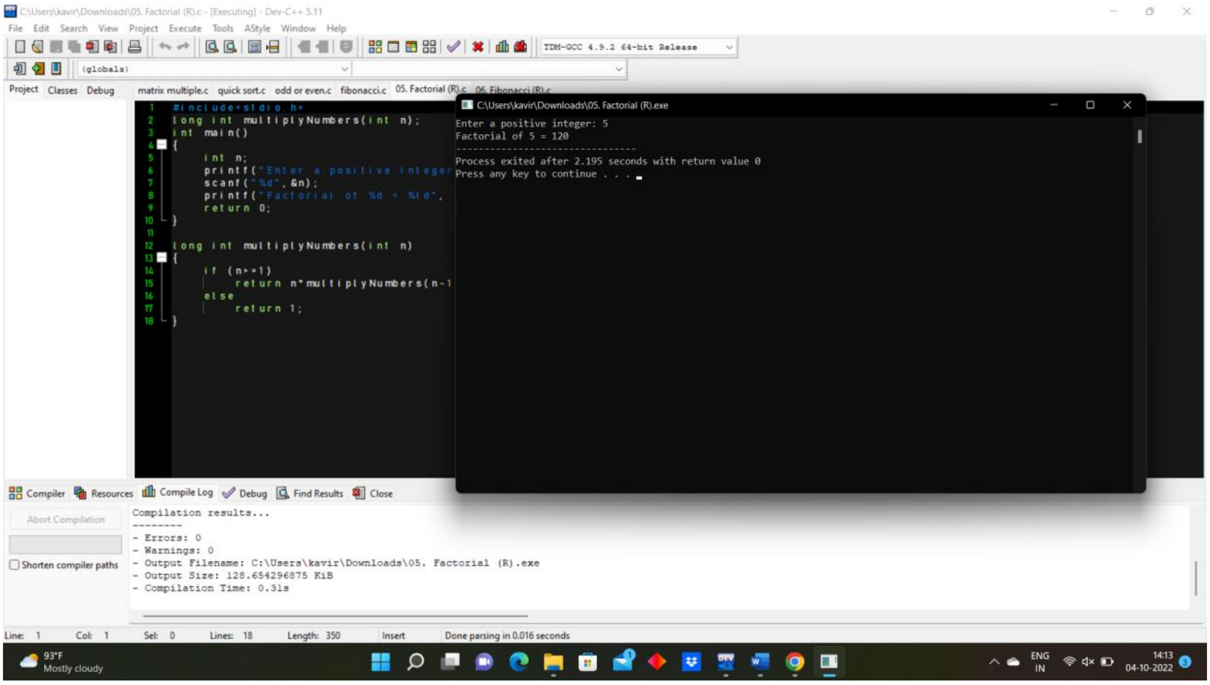
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
matrix multiple.c quick sort.c odd or even.c fibonacci.c
C:\Users\kavir\OneDrive\Documents\fibonacci.c
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
94°F Mostly cloudy
ENG IN
14:05 04-10-2022

```c
#include <stdio.h>
int main() {
  int i, n;
  int t1 = 0, t2 = 1;
  int nextTerm = t1 + t2;
  printf("Enter the number of terms: ");
  scanf("%d", &n);
  printf("Fibonacci Series: %d, %d, ", t1, t2);

  for (i = 3; i <= n; ++i) {
    printf("%d, ", nextTerm);
    t1 = t2;
    t2 = nextTerm;
    nextTerm = t1 + t2;
  }

  return 0;
}
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavir\OneDrive\Documents\fibonacci.exe
- Output Size: 128.1015625 KiB
- Compilation Time: 0.28s
```

Line: 18 Col: 2 Sel: 0 Lines: 18 Length: 353 Insert Done parsing in 0.016 seconds

Factorial(R):

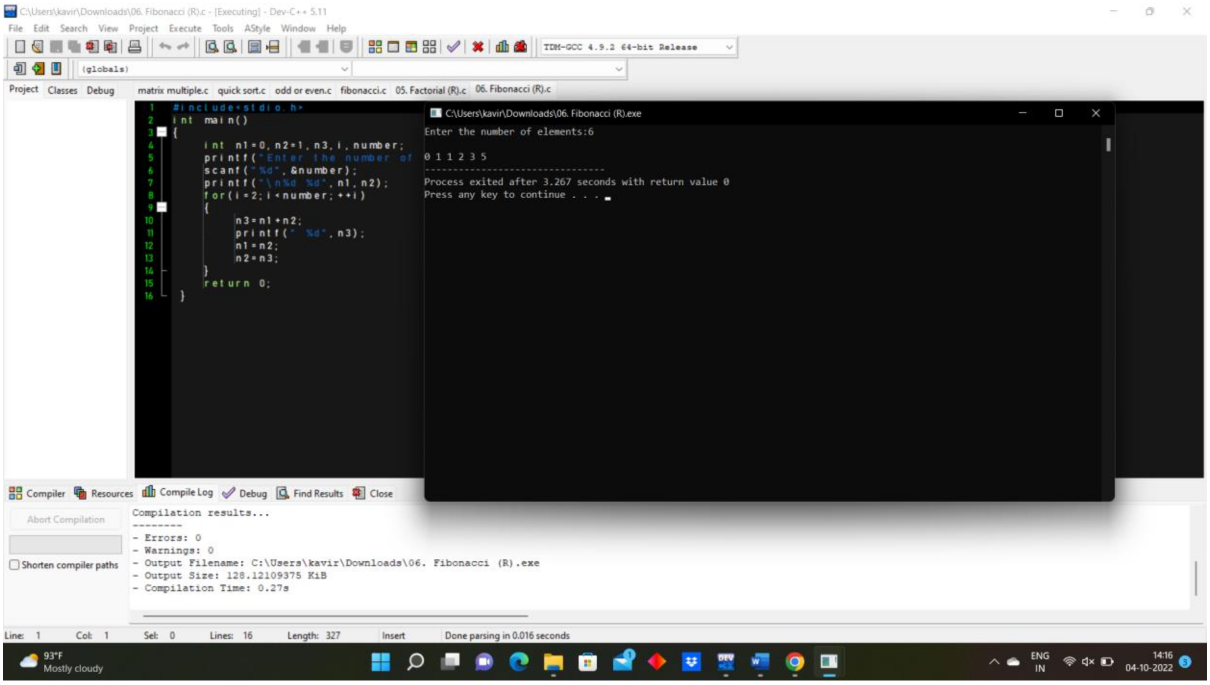


```
#include<stdio.h>
long int multiplyNumbers(int n);
int main()
{
    int n;
    printf("Enter a positive integer
    scanf("%d",&n);
    printf("Factorial of %d = %ld",
    return 0;
}

long int multiplyNumbers(int n)
{
    if (n>=1)
        return n*multiplyNumbers(n-1
    else
        return 1;
}
```

```
Enter a positive integer: 5
Factorial of 5 = 120
--------------------------------
Process exited after 2.195 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavir\Downloads\05. Factorial (R).exe
- Output Size: 128.654296875 KiB
- Compilation Time: 0.31s
```

Fibonnacci(R):

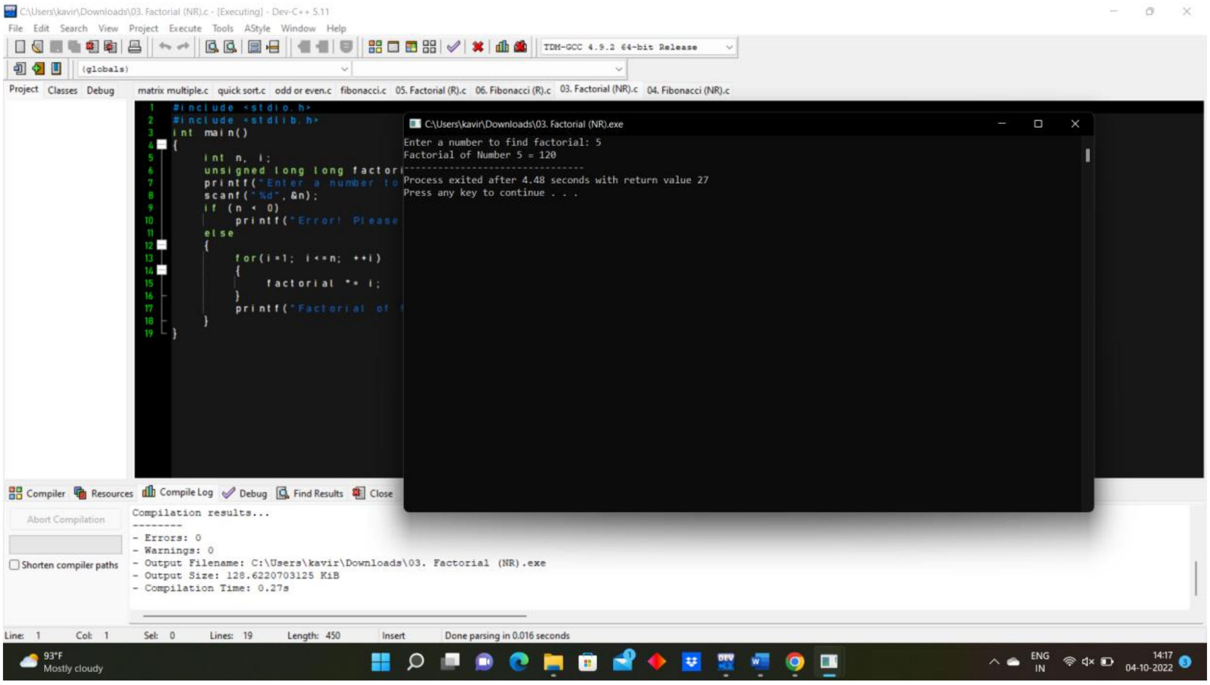


```
#include<stdio.h>
int main()
{
    int n1=0,n2=1,n3,i,number;
    printf("Enter the number of
    scanf("%d",&number);
    printf("\n%d %d",n1,n2);
    for(i=2;i<number;++i)
    {
        n3=n1+n2;
        printf(" %d",n3);
        n1=n2;
        n2=n3;
    }
    return 0;
 }
```

```
Enter the number of elements:6

0 1 1 2 3 5
--------------------------------
Process exited after 3.267 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavir\Downloads\06. Fibonacci (R).exe
- Output Size: 128.12109375 KiB
- Compilation Time: 0.27s
```

Factorial(NR)::

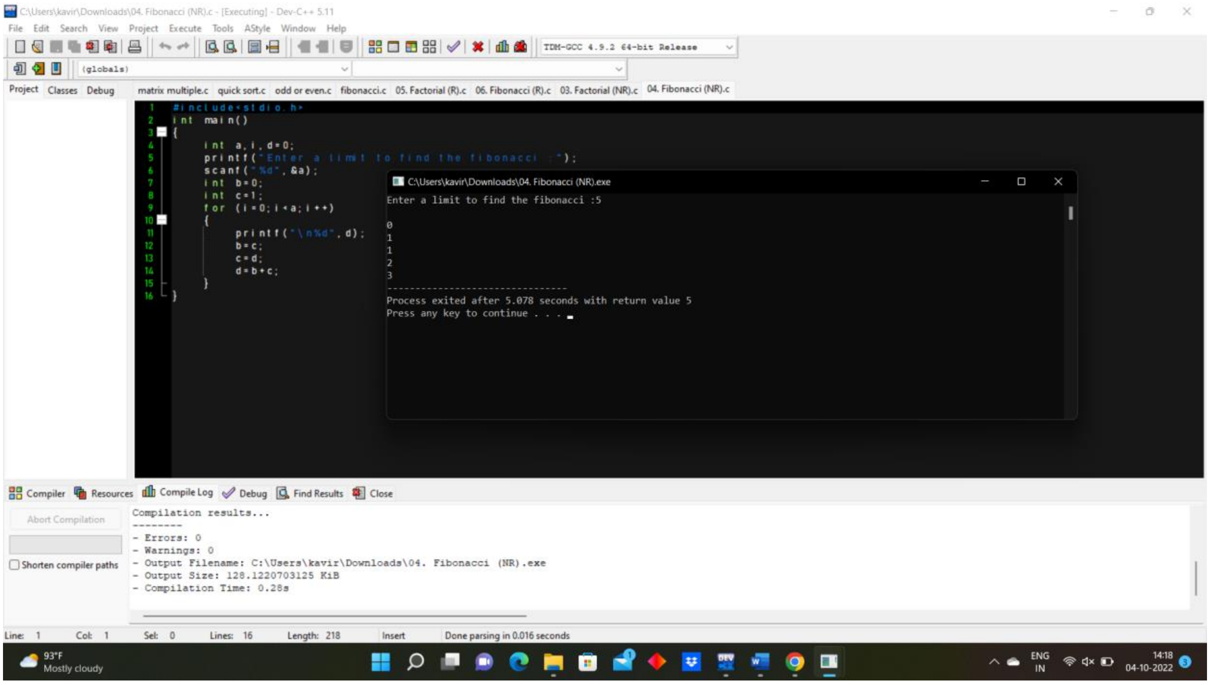


```
#include <stdio.h>
#include <stdlib.h>
int main()
{
    int n, i;
    unsigned long long factori
    printf("Enter a number to
    scanf("%d",&n);
    if (n < 0)
        printf("Error! Please
    else
    {
        for(i=1; i<=n; ++i)
        {
            factorial *= i;
        }
        printf("Factorial of
    }
}
```

```
Enter a number to find factorial: 5
Factorial of Number 5 = 120
--------------------------------
Process exited after 4.48 seconds with return value 27
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavir\Downloads\03. Factorial (NR).exe
- Output Size: 128.6220703125 KiB
- Compilation Time: 0.27s
```

Fibonnacci(NR)::

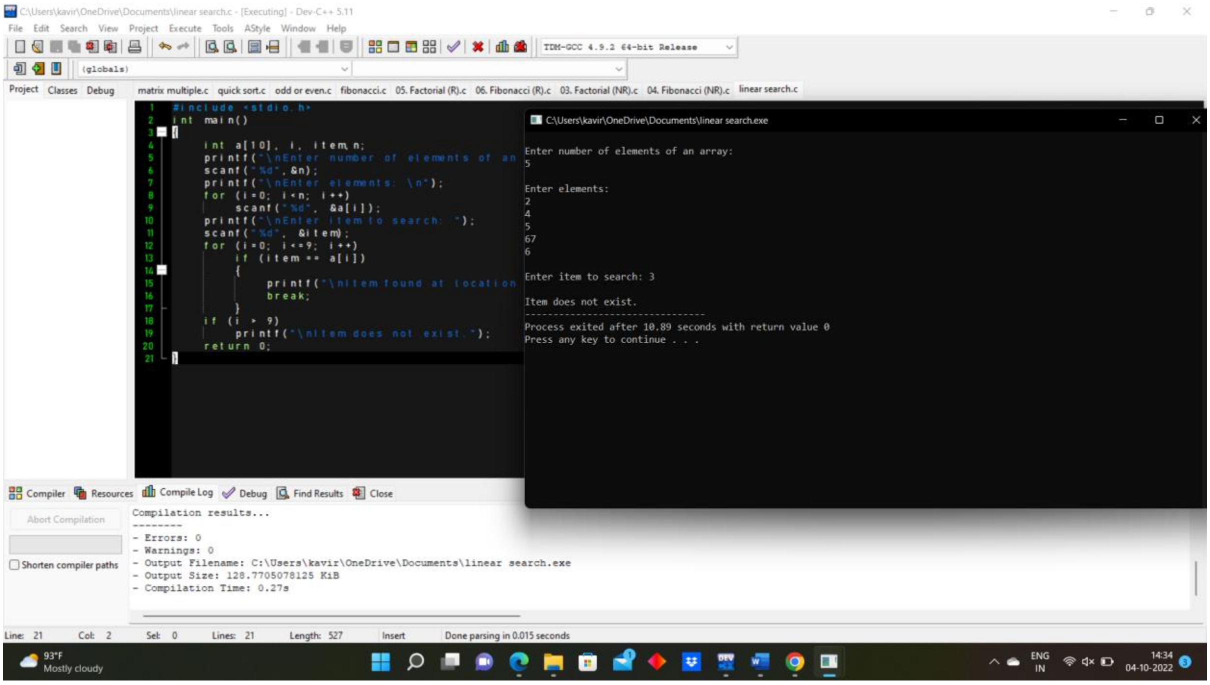


```
#include<stdio.h>
int main()
{
    int a,i,d=0;
    printf("Enter a limit to find the fibonacci :");
    scanf("%d",&a);
    int b=0;
    int c=1;
    for (i=0;i<a;i++)
    {
        printf("\n%d",d);
        b=c;
        c=d;
        d=b+c;
    }
}
```

```
Enter a limit to find the fibonacci :5

0
1
1
2
3
--------------------------------
Process exited after 5.078 seconds with return value 5
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavir\Downloads\04. Fibonacci (NR).exe
- Output Size: 128.1220703125 KiB
- Compilation Time: 0.28s
```

Linear search::



C:\Users\kavir\OneDrive\Documents\linear search.c - [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
matrix multiple.c quick sort.c odd or even.c fibonacci.c 05. Factorial (R).c 06. Fibonacci (R).c 03. Factorial (NR).c 04. Fibonacci (NR).c linear search.c
C:\Users\kavir\OneDrive\Documents\linear search.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
□ Shorten compiler paths
93°F Mostly cloudy
ENG IN
14:34 04-10-2022

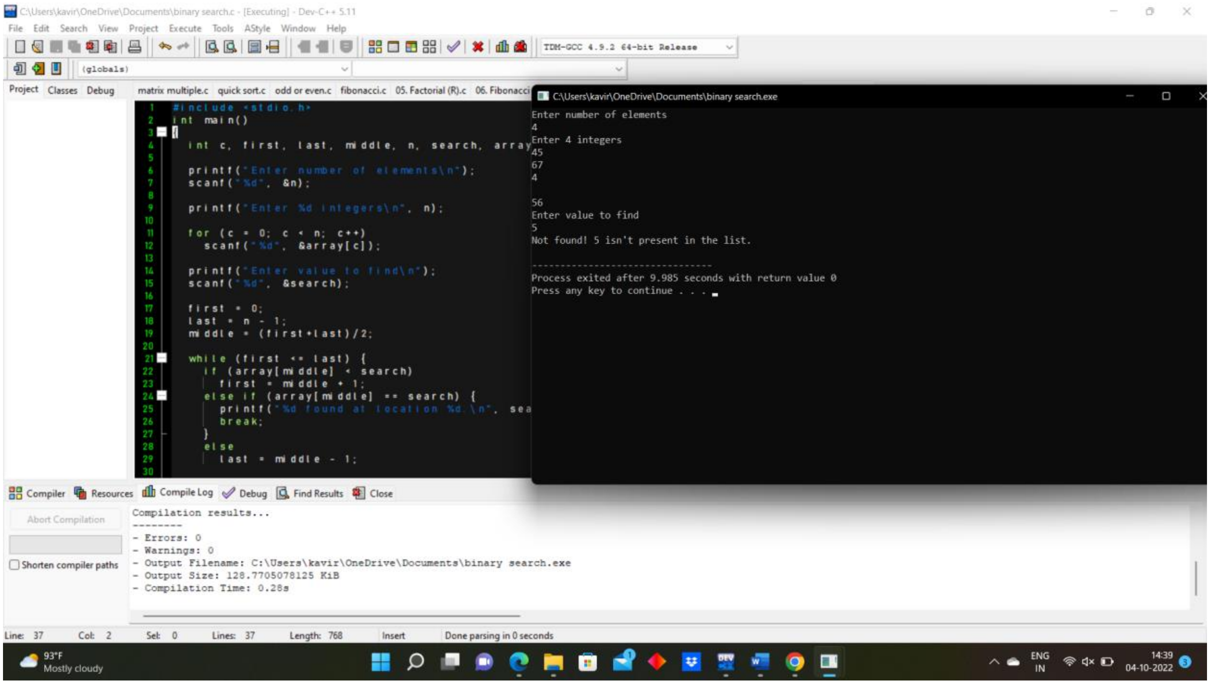
```
#include <stdio.h>
int main()
{
    int a[10], i, item,n;
    printf("\nEnter number of elements of an
    scanf("%d",&n);
    printf("\nEnter elements: \n");
    for (i=0; i<n; i++)
        scanf("%d", &a[i]);
    printf("\nEnter item to search: ");
    scanf("%d", &item);
    for (i=0; i<=9; i++)
        if (item == a[i])
        {
            printf("\nItem found at location
            break;
        }
    if (i > 9)
        printf("\nItem does not exist.");
    return 0;
}
```

```
Enter number of elements of an array:
5

Enter elements:
2
4
5
67
6

Enter item to search: 3

Item does not exist.
--------------------------------
Process exited after 10.89 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavir\OneDrive\Documents\linear search.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.27s
```

Line: 21 Col: 2 Sel: 0 Lines: 21 Length: 527 Insert Done parsing in 0.015 seconds

Binary Search::



C:\Users\kavir\OneDrive\Documents\binary search.c - [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
matrix multiple.c quick sort.c odd or even.c fibonacci.c 05. Factorial (R).c 06. Fibonacci
C:\Users\kavir\OneDrive\Documents\binary search.exe
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
□ Shorten compiler paths
93°F Mostly cloudy
ENG IN
14:39 04-10-2022

```
#include <stdio.h>
int main()
{
  int c, first, last, middle, n, search, array

  printf("Enter number of elements\n");
  scanf("%d", &n);

  printf("Enter %d integers\n", n);

  for (c = 0; c < n; c++)
    scanf("%d", &array[c]);

  printf("Enter value to find\n");
  scanf("%d", &search);

  first = 0;
  last = n - 1;
  middle = (first+last)/2;

  while (first <= last) {
    if (array[middle] < search)
      first = middle + 1;
    else if (array[middle] == search) {
      printf("%d found at location %d.\n", sea
      break;
    }
    else
      last = middle - 1;

```

```
Enter number of elements
4
Enter 4 integers
45
67
4

56
Enter value to find
5
Not found! 5 isn't present in the list.

--------------------------------
Process exited after 9.985 seconds with return value 0
Press any key to continue . . .
```

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\kavir\OneDrive\Documents\binary search.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.28s
```

Line: 37 Col: 2 Sel: 0 Lines: 37 Length: 768 Insert Done parsing in 0 seconds