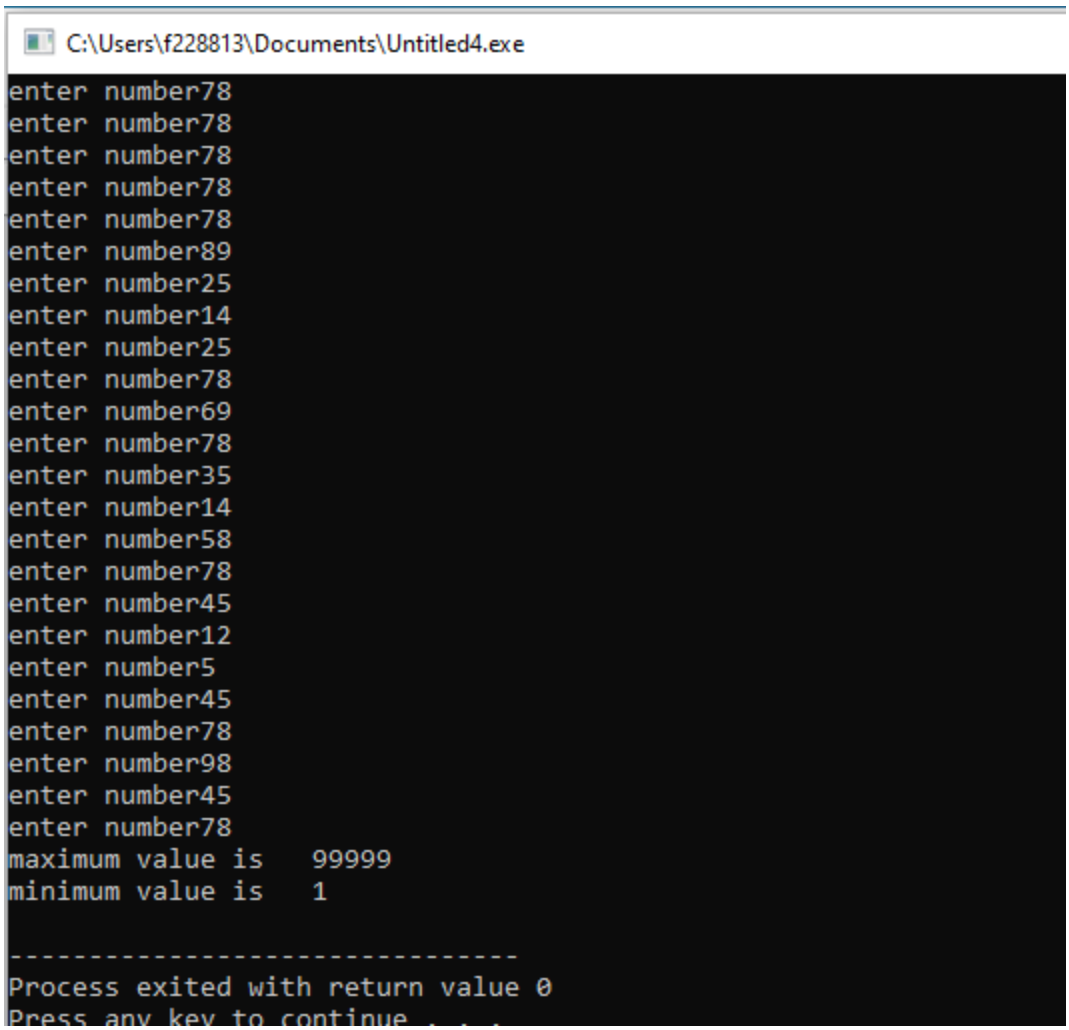
task 1:

```
#include<iostream>
using namespace std;
int main()
{
	int a[10][10] ,lar=0,min=99999999;
	for(int i=0;i<10;i++)
	{
		for(int j=0;j<10;j++)
		{
			cout<<"enter number";
		cin>>a[i][j];
		}
	}

	for(int i=0;i<10;i++)
	{
		for(int j=0;j<10;j++)
		{
		if(a[i][j]>lar)
		{
			lar=a[i][j];
		}
		if(a[i][j]<min)
		{
			min=a[i][j];
		}

		}

	}cout<<"maximum value is   "<<lar<<endl;
cout<<"minimum value is   "<<min<<endl;
```

}

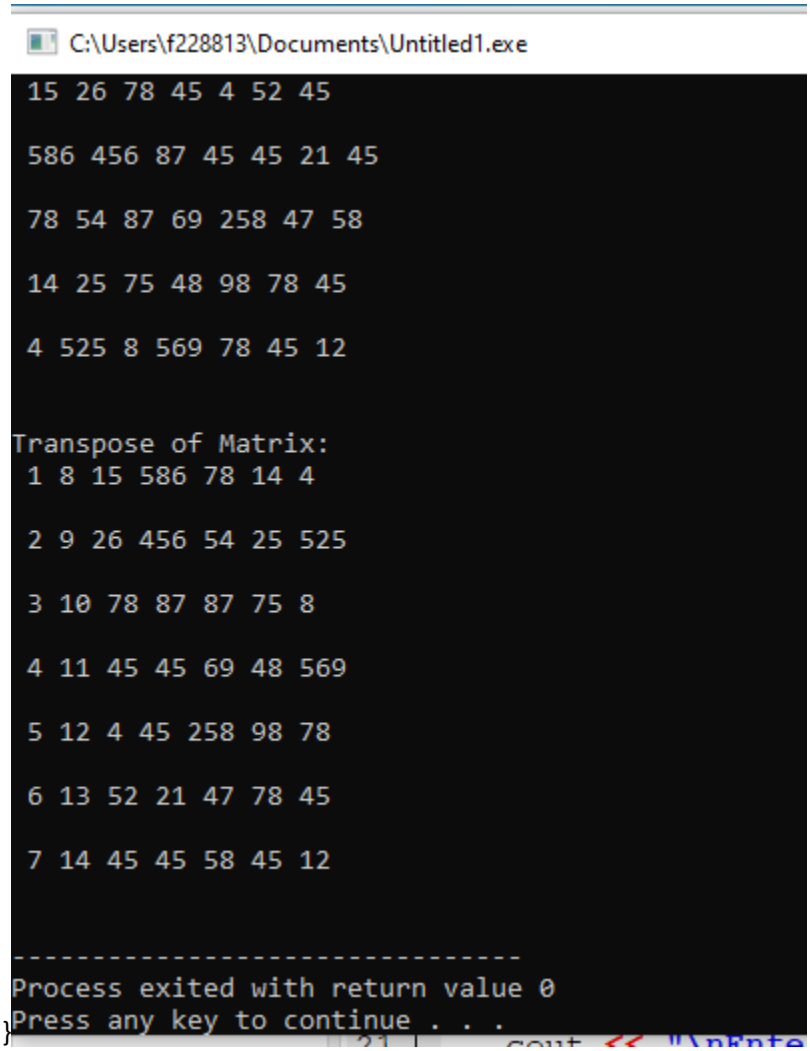


Task 2:

```
#include <iostream>

using namespace std;


int main()

 {

   int a[7][7], transpose[7][7],  col, i,row, j;


   cout << "Enter rows and cols of matrix: ";

   cin >> row >> col;
```

```
for (int i = 0; i < row; ++i)
{
  for (int j = 0; j < col; ++j)
          {
    cout << "Enter number";
    cin >> a[i][j];
  }
}

 for (int i = 0; i < col; ++i)
  for (int j = 0; j < row; ++j)
          {
    cout << " " << transpose[i][j];
    if (j == row - 1)
      cout << endl << endl;
  }

for (int i = 0; i < row; ++i)
  for (int j = 0; j < col; ++j)
          {
    transpose[j][i] = a[i][j];
  }

for (int i = 0; i < row; ++i)
{
  for (int j = 0; j < col; ++j)
          {
    cout << " " << a[i][j];
    if (j == col - 1)
      cout << endl << endl;
```

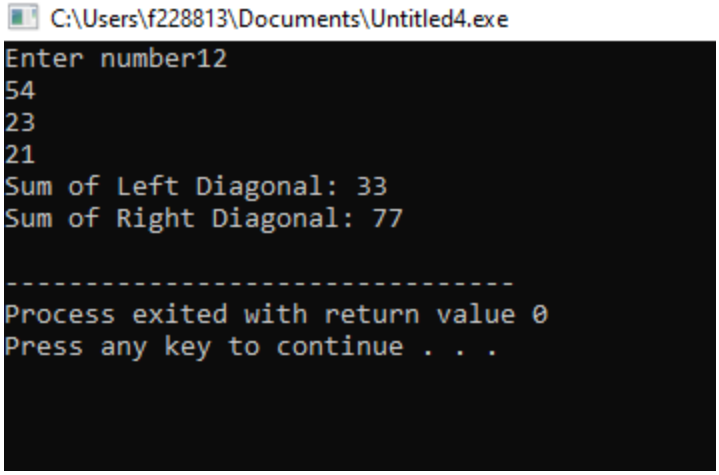
```
  }
}



for (int i = 0; i < row; ++i)
  for (int j = 0; j < col; ++j)
          {
    transpose[j][i] = a[i][j];
  }




return 0;
```



task 3:

```
#include <iostream>
using namespace std;

int main()
{
  int a[8][8],sl =0, sr = 0;
  cout << "Enter number";

  for(int i=0; i<8 ; i++)
  {
    for(int j=0; j<8; j++)
```

```
            {
     cin >> a[i][j];
     if(i==j)
       sl += a[i][j];
     if((i+j) == 8-1)
       sr += a[i][j];
    }
  }

  cout << "Sum of Left Diagonal: "<< sl << endl;
  cout << "Sum of Right Diagonal: "<< sr << endl;

  return 0;
}
```



Task 3 another with diagonal interchange:

```
#include <iostream>
using namespace std;

int main()
{
  int a[8][8],sl =0, sr = 0,sa[8][8],b[8],ab[8],i;
  cout << "Enter number";
```

```
 for(int i=0; i<8 ; i++)
 {
  for(int j=0; j<8; j++)
          {
    cin >> a[i][j];
    if(i==j)
      sl += a[i][j];
    if((i+j) == 8-1)
      sr += a[i][j];
  }
 }

 cout << "Sum of Left Diagonal: "<< sl << endl;
 cout << "Sum of Right Diagonal: "<< sr << endl;



for (int i = 0; i < 8; i++)
          {
                    for (int j = 0; j < 8; j++)
                    {
                              sa[i][j] = a[i][j];
                              if (i == j)
                              {
                                        sa[i][j] = b[i];
                              }
                    }
          }

          for (int i = 0, j = 7; i < 8 && j >= 0; i++, j--)
          {
```

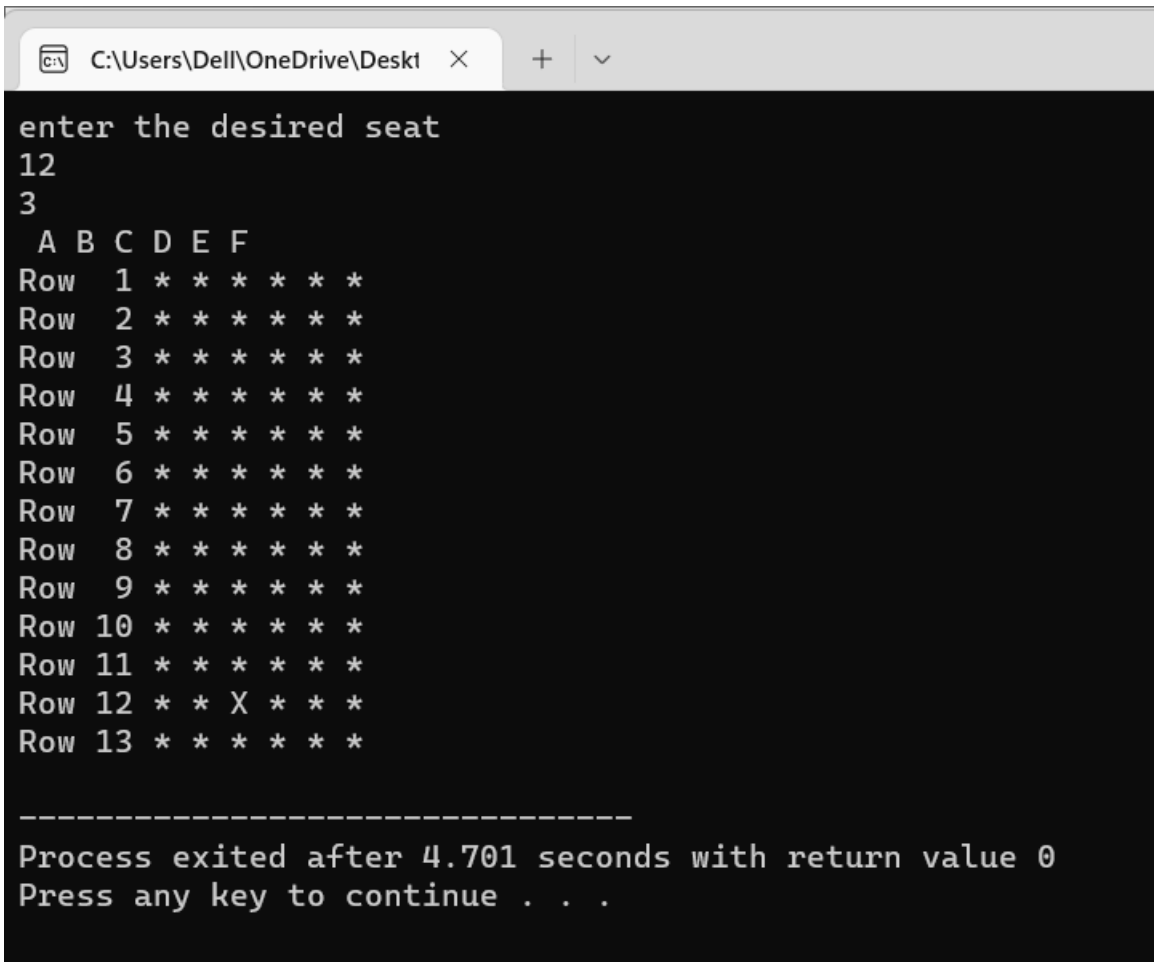
```
                sa[i][j] = ab[i];
        }

        for (int i = 0; i < 8; i++)
        {
                for (int j = 0; j < 8; j++)
                {
                        cout << sa[i][j] << "\t";

                }
                cout << endl;
        }

        return 0;
}
```

Task 4:

```
#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

        int i, j,row_num, col_num,row, seat;
        char seat_resvr,availability[13][6],A[13][6], reserved[2], tic_type,seats;
```

```
cout << "enter the desired seat\n";

for (int i = 0; i < 13; i++)

{

        for (int j = 0; j < 6; j++)

        {

                A[i][j] = '*';

        }

}

cin >> row >> seat;

A[row - 1][seat - 1] = 'X';

cout << " A B C D E F" << endl;

for (int i = 0; i < 13; i++)

{
```

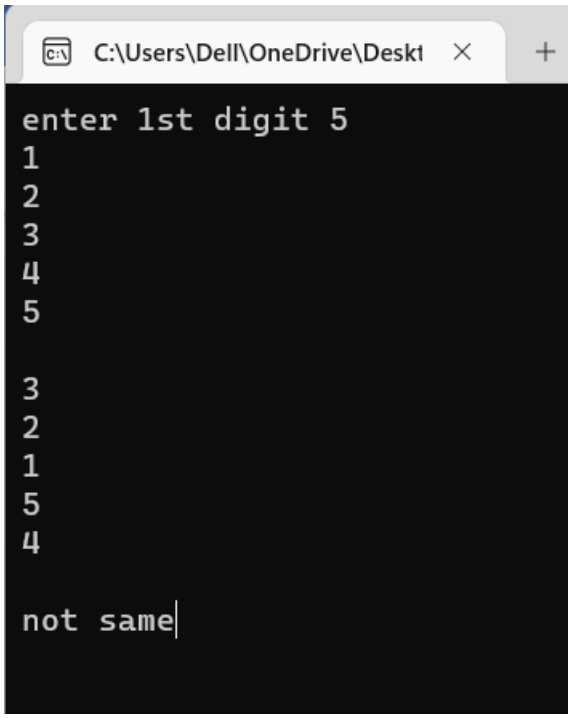
```
                cout << "Row" << setw(3) << i + 1 << " ";


        for (int j = 0; j < 6; j++)
        {
                cout << A[i][j] << ' ';
        }



                cout << endl;

}



}
```



Task 5:

```
#include <iostream>

using namespace std;


int main()


{


        int a[5],i,j,n,b[5];

        cout<<"enter 1st digit ";
```

```
        cin>>a[0];
        n=a[0];
        for (int i=0;i<n;i++)
{
        for (int i=0;i<n;i++)
        {
         cin>>a[i];
        }
cout<<endl;
        for (int i=0;i<n;i++)
        {
         cin>>b[i];
        }
cout<<endl;
        if(a[i]!=b[i])
        cout<<"not same";
        else
        cout<<"same and code is error free";
  }
}
```


C:\Users\Dell\OneDrive\Deskt
enter 1st digit 5
1
2
3
4
5
3
2
1
5
4
not same