**Practical : 10**

**CODE :**

#include<stdio.h>

#include<math.h>

#include<stdlib.h>

main()

{

int i,j,k,n;

printf("Order of the square matrix : ");

scanf("%d",&n);

float a[n][n],f;

printf("Elements of the matrix : \n");

for(i=0;i<n;i++)

{

for(j=0;j<n;j++)

{

scanf("%f",&a[i][j]);

}

}

float det = 1;

for(i=0;i<n;i++)

{

for(j=i+1;j<n;j++)

{

f=a[j][i]/a[i][i];

for(k=0;k<n;k++)

{

a[j][k]=a[j][k]-f\*a[i][k];

}

}

det=det\*a[i][i];

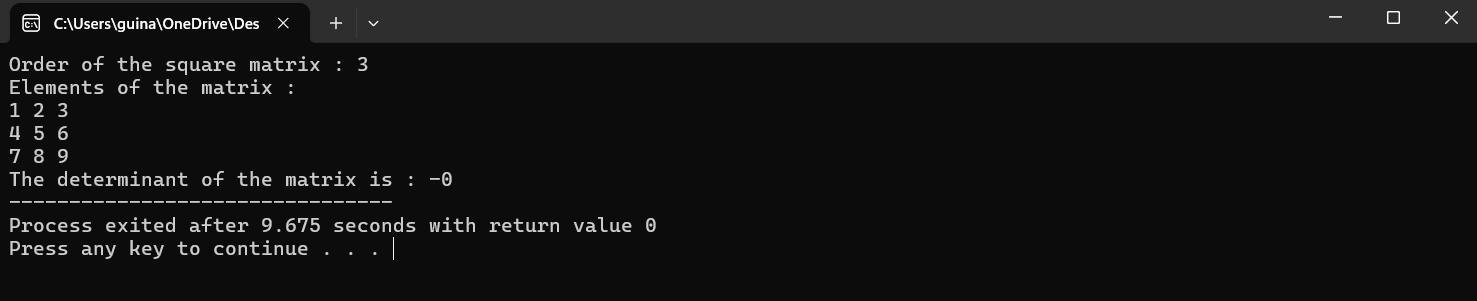
}

printf("The determinant of the matrix is : %0.0f",det);

}

**OUTPUT :**

****

****