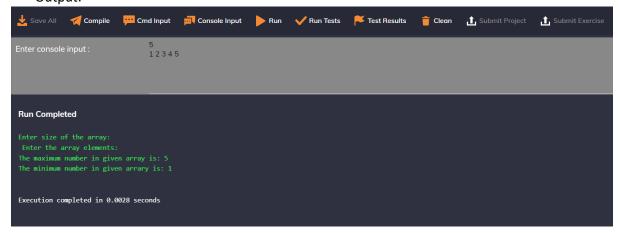
- 7a. Write a C program, to find both the largest and smallest number in a list of integers using an Array.
- b. Write a C program, to add two matrices using an Array.
- c. Write a C program, to multiply two matrices using an Array.

```
a. #include <stdio.h>
    #include <math.h>
    int main()
    int i,min,max,size,a[20];
    printf("Enter size of the array:\n ");
    scanf("%d",&size);
    printf("Enter the array elements:\n");
    for(i=0; i<size; i++)
    scanf("%d\n", &a[i]);
    max=a[0];
    min=a[0];
    for(i=1;i<size;i++)
    if(a[i]>max)
    max=a[i];
    if(a[i]<min)
    min=a[i];
    printf("The maximum number in given array is: %d\n",max);
    printf("The minimum number in given arrary is: %d\n",min);
    return 0;
   }
    Output:
```



```
b. #include <stdio.h>
#include <math.h>
void main()
{
int a[2][2], b[2][2];
int i,j;
```

```
printf("Enter elements of matrix A:\n");
   for(i=0;i<2;i++)
   {
   for(j=0;j<2;j++)
   scanf("%d",&a[i][j]);
   printf("Enter elements of matrix B:\n");
   for(i=0;i<2;i++)
   for(j=0;j<2;j++)
   scanf("%d",&b[i][j]);
   printf("\n =====Matrix Addition=====\n");
   for(i=0;i<2;i++)
   for(j=0;j<2;j++)
   printf("%5d",a[i][j]+b[i][j]);
   printf("\n");
   }
   }
   Output:
👱 Save All 🛛 Compile 🚾 Cmd Input 👼 Console Input 🕨 Run 🗸 Run Tests 🎏 Test Results  🕆 Clean 🐧 Submit Project 🐧 Submit Exercise
Run Completed
Enter elements of matrix A:
Enter elements of matrix B:
```

```
c. #include<stdio.h>
    #include<stdlib.h>
    int main(){
    int a[2][2],b[2][2],c[2][2],i,j,k;
    printf("enter the first matrix element=\n");
    for(i=0;i<2;i++)
    {
      for(j=0;j<2;j++)
      {
        scanf("%d",&a[i][j]);
      }
      printf("enter the second matrix element=\n");
      for(i=0;i<2;i++)</pre>
```

Execution completed in 0.0032 seconds

```
{
for(j=0;j<2;j++)
scanf("%d",&b[i][j]);
}
}
printf("multiply of the matrix=\n");
for(i=0;i<2;i++)
{
for(j=0;j<2;j++)
c[i][j]=0;
for(k=0;k<2;k++)
c[i][j]+=a[i][k]*b[k][j];
//for printing result
for(i=0;i<2;i++)
for(j=0;j<2;j++)
printf("%d\t",c[i][j]);
printf("\n");
return 0;
 👱 Save All 🚀 Compile 💯 Cmd Input 👼 Console Input 🕨 Run 🗸 Run Tests 📂 Test Results 🤠 Clean 🗘 Submit Project 🗘 Submit Exercise
  Run Completed
 enter the first matrix element=
enter the second matrix element=
multiply of the matrix=
  Execution completed in 0.0027 seconds
```