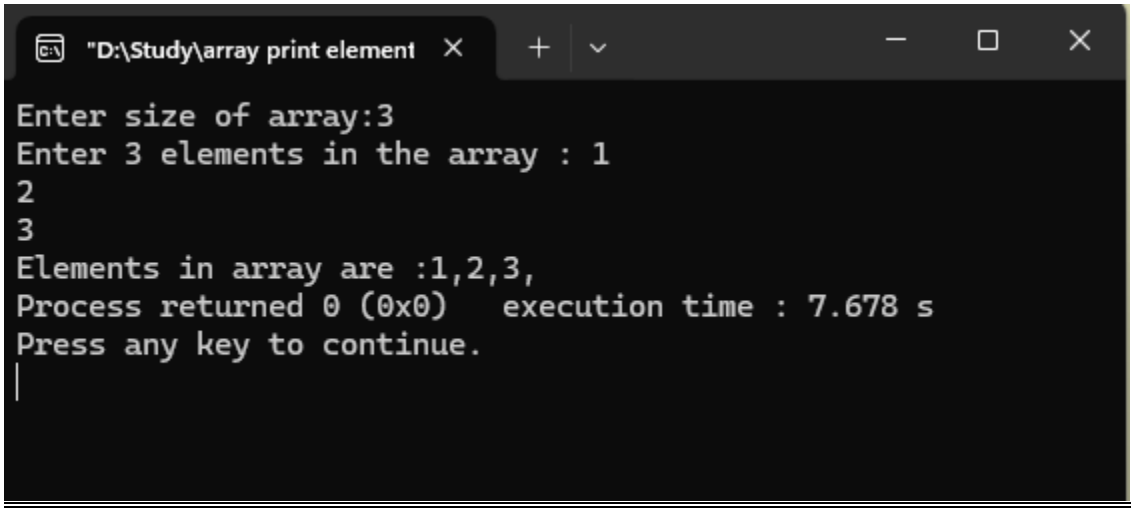
***Problem-1**: Write a C program to read and print elements of array. – using recursion.*

Source Code:

```
#include<stdio.h>
int main()
{
   int n;int i;
   printf("Enter size of array:");
   scanf("%d",&n);
   int arr[n];
   printf("Enter %d elements in the array : ",n);
   for (i=0;i<n;i++)
   {
      scanf("%d",&arr[i]);
   }
   printf("Elements in array are :");
   for (i=0;i<n;i++)
   {
     printf("%d,",arr[i]);
   }
   return 0;
}
```

Output:

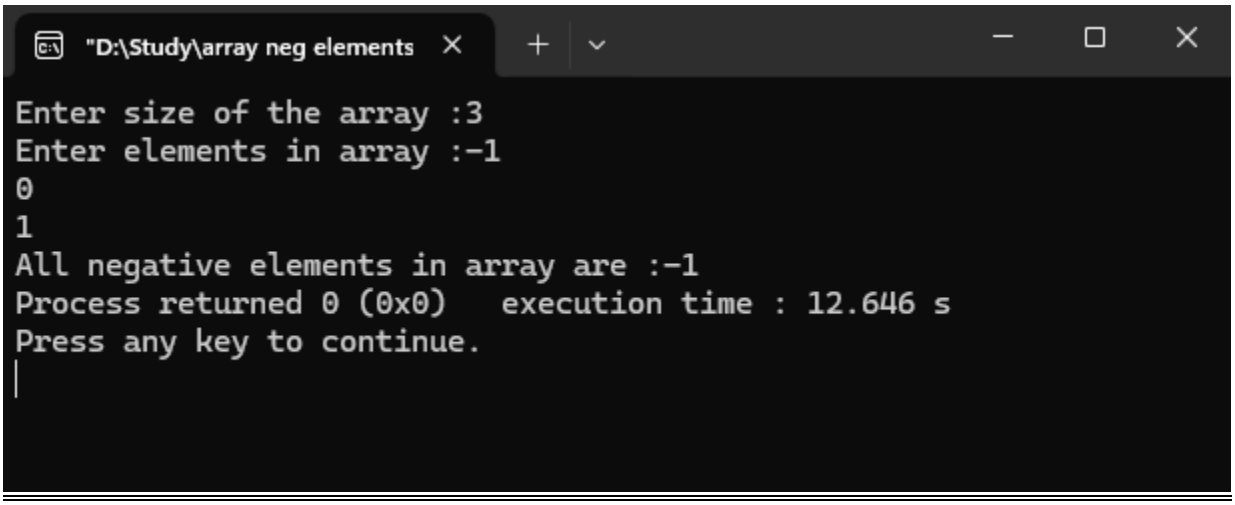


Problem-2: *Write a C program to print all negative elements in an array.*

Source Code:

```
#include<stdio.h>
 int main(){
int i,n ;
printf("Enter size of the array :");
scanf("%d",&n);
int arr[n];
printf("Enter elements in array :");
for (i=0;i<n;i++)
{
   scanf("%d",&arr[i]);
}
printf("All negative elements in array are :");
for(i=0;i<n;i++)
{
   if(arr[i]<0)
      printf("%d ",arr[i]);
}
return 0;
}
```

Output:

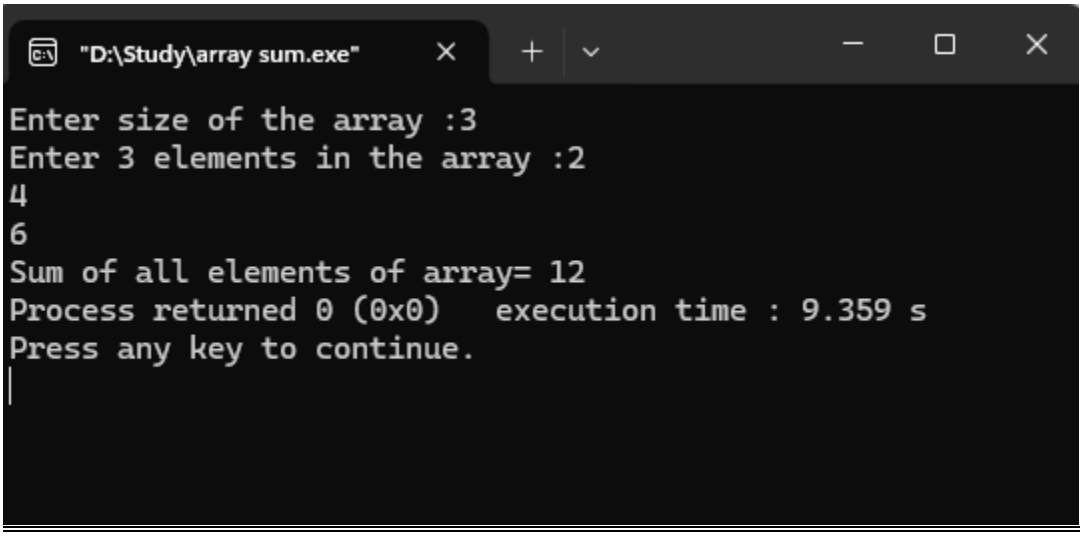


Problem-3: Write a C program to find sum of all array elements. – using recursion.

Source Code:

```
#include <stdio.h>
int main()
{
   int i,n,sum=0 ;
   printf("Enter size of the array :");
   scanf("%d",&n);
   int arr[n];
   printf("Enter %d elements in the array :",n);
   for (i=0;i<n;i++)
   {
      scanf("%d",&arr[i]);
   }
   printf("Sum of all elements of array= ");
   for(i=0;i<n;i++)
   {
     sum+=arr[i];
   }
   printf("%d ",sum);
   return 0;
}
```

Output:



Problem-4: Write a C program to find maximum and minimum element in an array. – using recursion.

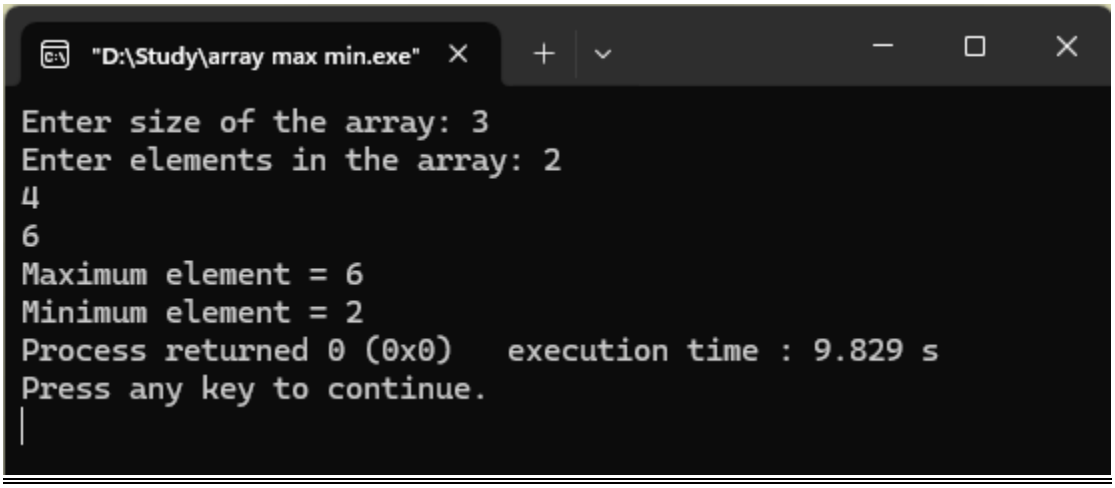
Source Code:

```
 #include <stdio.h>
int main()
{
   int size, i, max, min;
   printf("Enter size of the array: ");
   scanf("%d", &size);
   int arr[size];
   printf("Enter elements in the array: ");
   for(i = 0; i < size; i++)
   {
      scanf("%d", &arr[i]);
   }
   max = arr[0];
   min = arr[0];

   for(i = 1; i < size; i++)
   {
      if(arr[i] > max)
      {
         max = arr[i];
      }
      if(arr[i] < min)
      {
         min = arr[i];
      }
   }

   printf("Maximum element = %d\n", max);
   printf("Minimum element = %d", min);
 return 0;
}
```

Output:


"D:\Study\array max min.exe"
Enter size of the array: 3
Enter elements in the array: 2
4
6
Maximum element = 6
Minimum element = 2
Process returned 0 (0x0)   execution time : 9.829 s
Press any key to continue.

Problem number 5:

```
#include <stdio.h>
int main() {
int flag = 0, position, goru[50] = {5, 1, 0, -15, 10, 3, 7, 100}, i, search_value;
printf("Enter search_value: ");
scanf("%d", &search_value);
for (i = 0; i < 8; i++) {
if (search_value == goru[i]) {
flag = 1;
position = i;
break;
}
}
if (flag == 1)
printf("%d is found and position = %d\n", search_value, position + 1);
else
printf("Value is not found\n");
return 0;
}
```

OUTPUT: