Experiment No- 4

Objective(s):

TO understand programming using different dimension of Array.

Program: Write a program to array 5 elements into an array and print the elements of the array

SAMPLE PROGRAMS

(Students are to code the following programs in the lab and show the outout to instuctor/course coordinator)

Instructions:

- Write comment to make your programs readable.
- Use descriptive variable in your programs.(Name of the Variable should showtheir purposes)

Programs List:

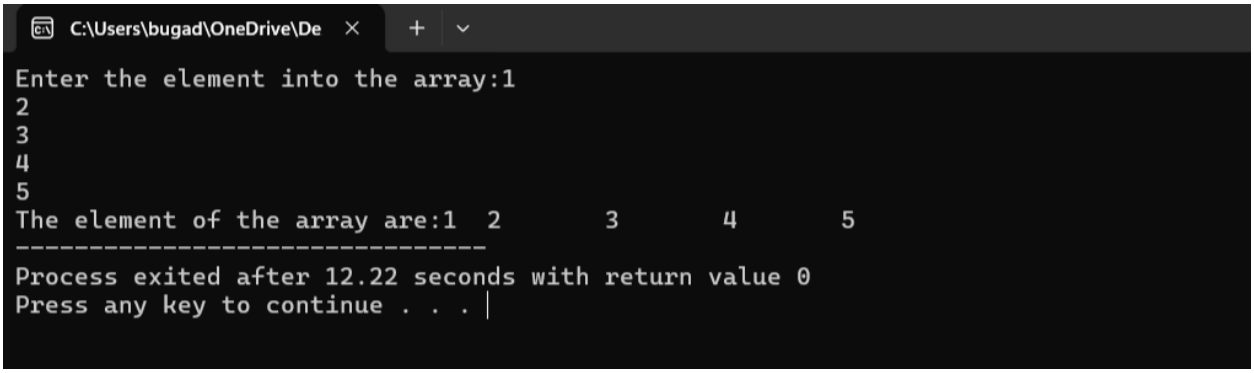
1. Write a program to search an element in array.
2. Write a program to perform addition of all elements in Array.
3. Write a program to find the largest and smallest element in Array.

Marks	Sign. Subject Teacher

Input

```
//Name:Sanika Raosaheb Bugade
//Roll no:02
//PRN:2023078230
//Seat no:01198
#include<stdio.h>

int main()

{

int i,a[5];

printf("Enter the element into the array:");

for(i=0;i<=4;i++)

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

printf("The element of the array are:");

for(i=0;i<=4;i++)

printf("%d \t",a[i]);

return 0;

}
```

Output

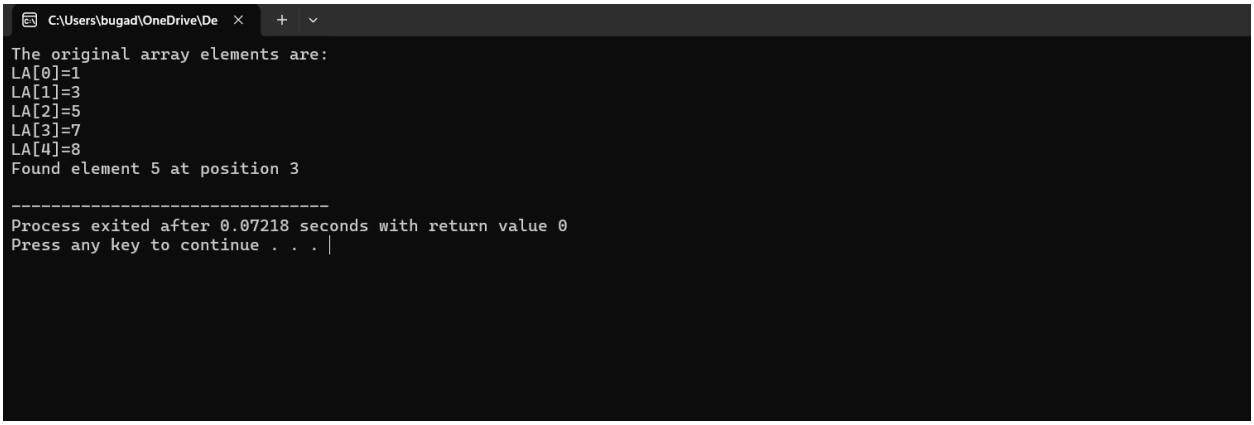


Input

```
//Name:Sanika Raosaheb Bugade
//Roll no:02
//PRN:2023078230
//Seat no:01198
//WAP TO SEARCH ELEMENT ARRAY IN AN ARRAY
#include<stdio.h>
int main()
{
int LA[]={1,3,5,7,8};
int item=5,n=5;
int i=0,j=0;
printf("The original array elements are:\n");
for(i=0;i<n;i++)
{
printf("LA[%d]=%d\n",i,LA[i]);
}
while(j<n)
{
if(LA[j]==item)
{
break;
}
j=j+1;
}
printf("Found element %d at position %d \n",item,j+1);
```

```
return 0;
}
```

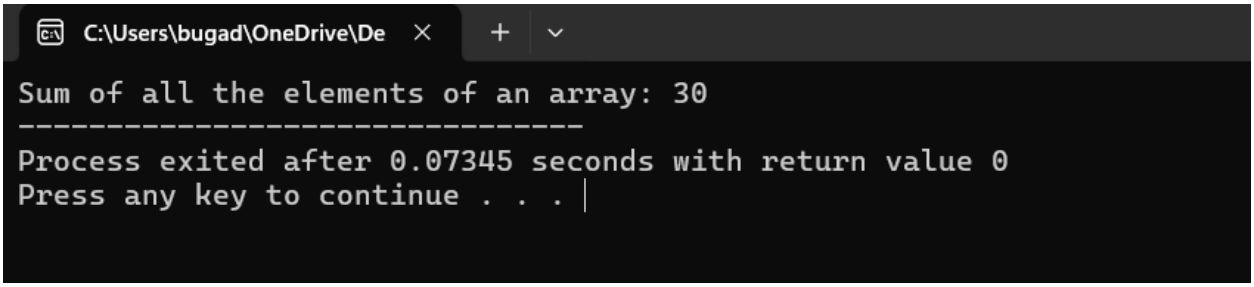
Output



Input

```
//Name:Sanika Raosaheb Bugade
//Roll no:02
//PRN:2023078230
//Seat no:01198
#include<stdio.h>
int main()
{
int arr[]={2,4,6,8,10};
int sum=0;
int i=0;
    int length = sizeof(arr)/sizeof(arr[0]);
 for(int i=0;i<length;i++)
 {
       sum=sum+arr[i];
 }
printf("Sum of all the elements of an array: %d",sum);
return 0;
}
```

Output



Input

```
//Name:Sanika Raosaheb Bugade
//Roll no:02
//PRN:2023078230
//Seat no:01198
//WAP TO FIND LARGEST AND SMALLEST ELEMENT IN ARRAY
#include<stdio.h>
#include<conio.h>
int main()
{
int arr[100],n,i,small,large;
printf("Enter the number of elements you want to insert:");
scanf("%d",&n);
for(i=0;i<n;i++)
{
printf("Enter the element%d",i+1);
scanf("%d",&arr[i]);
}
small=arr[0];
large=arr[0];
for(i=1;i<n;i++)
{
if(arr[i]<small)
{
small=arr[i];
}
if(arr[i]>large)
{
```

```
large=arr[i];
}
}
  printf("\n largest element is:%d",large);
  printf("\n smallest element is:%d",small);
  return 0;
}
```

Output