

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:");

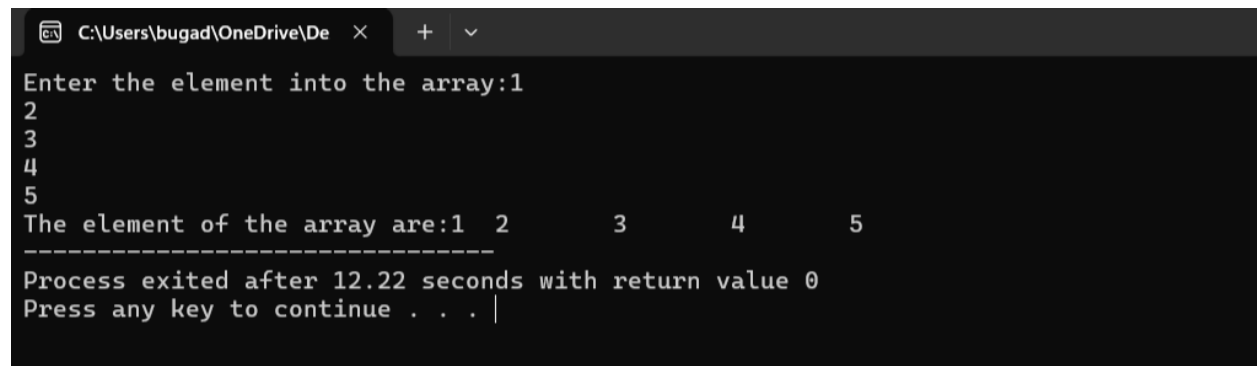
    for(i=0;i<=4;i++)

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

    return 0;

}
```

Output



```
C:\Users\bugad\OneDrive\De  ×  +  ▾

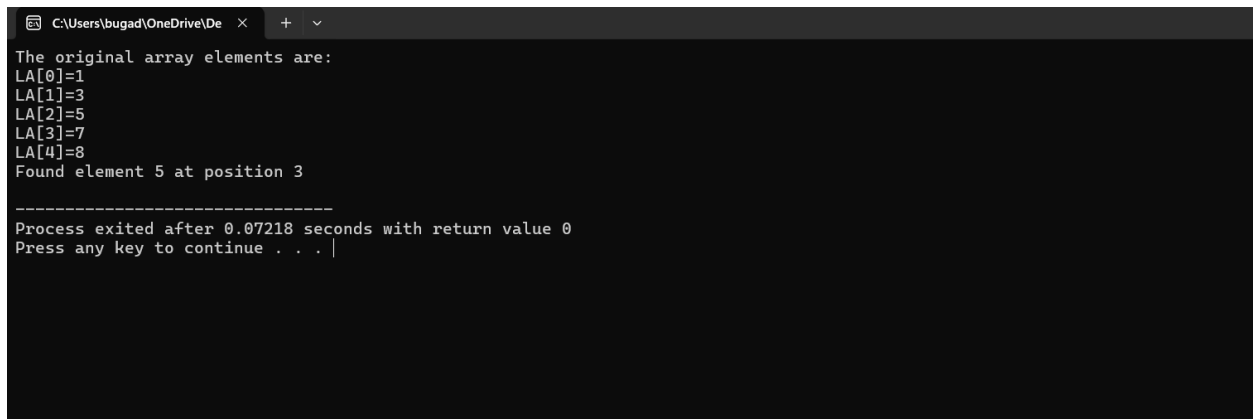
Enter the element into the array:1
2
3
4
5
The element of the array are:1  2      3      4      5
-----
Process exited after 12.22 seconds with return value 0
Press any key to continue . . . |
```

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



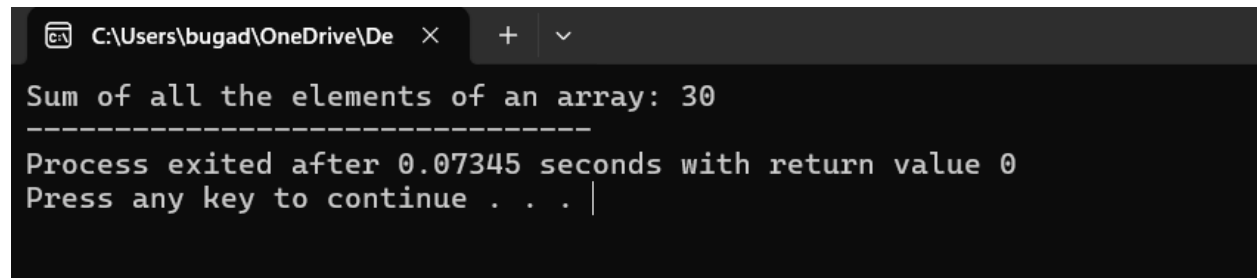
```
C:\Users\bugad\OneDrive\De >
The original array elements are:
LA[0]=1
LA[1]=3
LA[2]=5
LA[3]=7
LA[4]=8
Found element 5 at position 3

-----
Process exited after 0.07218 seconds with return value 0
Press any key to continue . . . |
```

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



```
C:\Users\bugad\OneDrive\De  X  +  v
Sum of all the elements of an array: 30
-----
Process exited after 0.07345 seconds with return value 0
Press any key to continue . . . |
```

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];
```

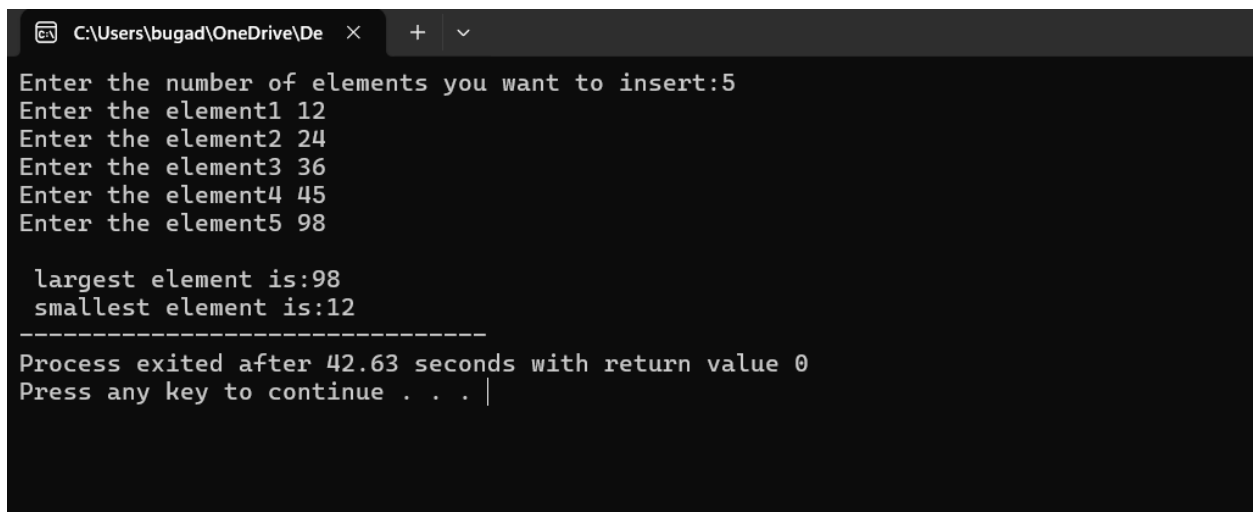
```
}
```

```
if(arr[i]>large)
```

```
{
```

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

Output



```
C:\Users\bugad\OneDrive\De  x  +  v  
Enter the number of elements you want to insert:5  
Enter the element1 12  
Enter the element2 24  
Enter the element3 36  
Enter the element4 45  
Enter the element5 98  
  
largest element is:98  
smallest element is:12  
-----  
Process exited after 42.63 seconds with return value 0  
Press any key to continue . . . |
```