

C++ Assignments | Arrays - 1 | Week 5

1-Calculate the product of all the elements in the given array.

```
Code:-
#include<iostream>
Using namespace std;
Int main()
{
Int n;
cout<<"Enter the array size: ";
cin>>n;
Int arr[n];
fora(int i = 0; i < n; i++)
{
cin>>arr[i];
```

```
}
Int sum = 1;
for(int i = 0; i < n; i++)
{
    sum = sum *arr[i];
}
cout<<"total : "<<sum;
return 0;
}</pre>
```

²-Find the second largest element in the given Array in one pass.

```
#include<iostream>
using namespace std;
int main()
{
```

```
int arr[n];
int i = arr[n]; //1 2 3 4 5
cout<<" "<<arr[i];
```

```
// output
// second largest number
int smax1 = arr[0];
for (int i = 1; i < n; i++)
{
    if ( smax1 < arr[i] && arr[i]!=max ) smax1=arr[i];
}
cout<<"second largest no is :"<<smax1<<endl;
return 0;
}</pre>
```

3. Find the minimum value out of all elements in the array.

```
#include<iostream>
using namespace std;

int main()
{
   int n;
   cout<<"enter the size of array:"<<endl;
   cin>>n;
   //array
   int arr[n];
```

```
cout<<endl;
```

4-Given an array, predict if the array contains duplicates or not.

```
or not.
#include <iostream>
using namespace std;
int main()
```

```
bool flag = false;
       if (arr[i] == arr[j])
           flag = true;
if (flag == false)
```

⁵-WAP to find the smallest missing positive element in the sorted Array that contains only positive elements.

```
#include<iostream>
using namespace std;
int main()
    int arr[n];
       cin>>arr[i];
    cout<<endl;</pre>
```

```
for (int i = 0; i < n; i++)
{
    if (arr[i] <= 0) continue;
    else if (arr[i] != arr[i] + 1) {
        cout << "this is the missing smallest element :
    "<<arr[i]+1;
        break;
    }
}</pre>
```

⁶-Predict the output.

```
int main()
{
int sub[50], i;
for ( i = 0 ; i <= 48 ; i++ );
{
    sub[i] = i;</pre>
```

```
cout<<sub[i]<<endl;
}
return 0;
}</pre>
```

Ans is 49.