

C++ Assignments | Arrays - 1 | Week 5

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

```
#include <iostream>

using namespace std;

int main(){

    int n;

    cout<<"Enter no of array: ";

    cin>>n;

    int arr [n];

    cout<<"Enter values : ";

    for (int i = 1; i <= n; i++){

        cin>>arr [i];

    }

    int product=1;

    for (int i = 1; i <= n; i++){
```

```

        product *= arr [i];

    }

    cout<<product;

}

```

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

```

#include <iostream>
#include <climits>
using namespace std;
int main(){
    int n;
    cout<<"Enter no of array: ";
    cin>>n;
    int arr [n];
    cout<<"Enter values : ";
    int mx=INT_MIN;
    int smx=INT_MIN;
    for (int i = 1; i <= n; i++){

```

```

        cin>>arr [i];

    }

    for (int i = 1; i <= n; i++){

        if(arr[i]>mx) {

            smx = mx;

            mx = arr[i];

        }

    }

    cout<<mx<<endl;

    cout<<smx<<endl;

}

```

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

```

#include <iostream>

using namespace std;

int main() {

    int n;

    cout<<"Enter no of array: ";

    cin>>n;

    int arr [n];

    cout<<"Enter values : ";

```

```

    int mn=arr[1];

    for (int i = 1; i <= n; i++){
        cin>>arr [i];
    }

    for (int i = 1; i <= n; i++){
        mn=min(mn,arr[i]);
    }

    cout<<mn;

}

```

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

```

#include<iostream>
using namespace std;
int main(){
    int arr[]= {9,3,4,5,6,7,8,1};
    int n = sizeof(arr)/4;
    bool flag = false;
    for(int i=0;i<=n;i++){
        for(int j=i+1;j<=n;j++){
            if(arr[i]==arr[j]){
                flag=true;
            }
        }
    }
}

```

```

        break;
    }
}
if (flag==true) break;
}
if(flag==true)        cout<<"contain duplicate ";
else                  cout<<"All elements are unique";
}

```

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() {
    cout<<"enter 5 elements of the array"<<endl;
    int a[5];
    for(int i=0;i<5;i++){
        cin>>a[i];
    }
    int x=0;
    bool flag=false;
    for(int i=0;i<n;i++){
        if(a[i]!= x){
            cout<<x<<endl;

```

```

flag=true;
break;
}
else x++;
}
if(flag==false) cout<<x<<endl;
return 0;
}

```

6. Predict the output.

```

int main()
{
    int sub[50], i ;
    for ( i = 0 ; i <= 48 ; i++ ) ;
    {
        sub[i] = i ;
        cout<<sub[i]<<endl ;
    }
    return 0;
}

```

Solution: