question1.cpp

question1.cpp > main()

```cpp
// Calculate the product of all the elements in the given array.
#include <iostream>
using namespace std;
int main()
{
    int arr[] = {1, 5, 9, 6, 87, 2};
    int n = sizeof(arr) / sizeof(arr[0]);
    int pro = 1;
    for (int i = 0; i < n; i++)
    {
        pro *= arr[i];
    }
    cout << pro;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1> cd "c:\Users\SAN
stion1 } ; if ($?) { .\question1 }
46980
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1>
```

question1.cpp | question2.cpp

C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1\question1.cpp

```cpp
// Find the second largest element in the given Array in one pass.
#include<iostream>
#include<climits>
using namespace std;
int main(){
    int arr[]={1,2,100,102,5,6,74};
    int n = sizeof(arr)/sizeof(arr[0]);
    int smax =INT_MIN, max =INT_MIN ;
    for(int i=0;i<n;i++){
        if(arr[i]>max){
            smax=max;
            max=arr[i];
        }
        if(arr[i]>smax && arr[i]!=max){
            arr[i]=smax;
        }
    }
    cout<<smax;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1> cd "c:\Users\
stion2 } ; if ($?) { .\question2 }
100
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1>
```

question3.cpp

question3.cpp > main()

```cpp
// Find the minimum value out of all elements in the array.
#include <iostream>
#include <climits>
using namespace std;
int main()
{
    int arr[] = {1, 2, 100, 102, 5, 6, 74};
    int n = sizeof(arr) / sizeof(arr[0]);
    int min = INT_MAX;
    for (int i = 0; i < n; i++)
    {
        if (arr[i] < min)
        {
            min=arr[i];
        }
    }
    cout<<min;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1> cd "c:\Users
stion3 } ; if ($?) { .\question3 }
1
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1>
```

question4.cpp

question4.cpp > main()

```cpp
// Given an array, predict if the array contains duplicates or not.
#include<iostream>
using namespace std;
int main(){
    int arr[]={1,5,6,8,3,2,7,6,2};
    int n=sizeof(arr)/sizeof(arr[0]);
    for(int i=0;i<n;i++){
        for(int j=i+1;j<n;j++){
            if(arr[i]==arr[j]) {
                cout<<"Duplicate present -> "<<arr[i]<<endl;
                break;
            }
        }
    }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1> cd "c:\Users\SANDEEP\
stion4 } ; if ($?) { .\question4 }
Duplicate present -> 6
Duplicate present -> 2
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1>
```

question5.cpp

question5.cpp > main()

```cpp
// 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[]={1,2,3,5,6,7,8,9};
    int n = sizeof(arr)/sizeof(arr[0]);
    int miss;
    for(int i=0;i<n;i++){
        if(arr[i]+1 != arr[i+1]) {
            cout << arr[i] + 1 << endl;
            break;
        }
    }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1> cd "c:\Users\SANDEEP\Desktop\coding\q
stion5 } ; if ($?) { .\question5 }
4
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\array1>
```

question5.cpp question6.cpp

question6.cpp

```cpp
// Predict the output.

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

// answer :-- It will print numbers from 0 to 47 in each line.
// 0
// 1
// 2
// 3
// 4
// 5
// 6
// 7
// 8
// 9
// ......
```