question1.cpp

question1.cpp > main()

```cpp
// Count the number of elements strictly greater than x.
#include<iostream>
using namespace std;
int main(){
    int arr[]={5,8,9,6,7,55,14,26,85,12,11};
    int n = sizeof(arr)/sizeof(arr[0]);
    int x =10;
    int count =0;
    for(int i=0;i<n;i++){
        if(arr[i]>x) count++;
    }
    cout<<count;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2> cd "c:\Users\SA
stion1 } ; if ($?) { .\question1 }
6
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2>
```

question2.cpp > main()

```cpp
// WAP to find the largest three elements in the array.
#include <iostream>
#include<climits>
using namespace std;
int main()
{
    int arr[] = {5, 8, 9, 6, 7, 55, 14, 26, 85, 12, 11};
    int n = sizeof(arr) / sizeof(arr[0]);
    int mx=INT_MIN;
    int smax=INT_MIN;
    int thirdmax=INT_MIN;
    for (int i = 0; i < n - 1; i++)
    {
        if (arr[i] > mx)
        {
            mx = arr[i];
        }
    }
    cout<<mx<<" ";
    for(int i=0;i<n;i++){
        if(arr[i]>smax && arr[i] != mx){
            smax=arr[i];
        }
    }
    cout<<smax<<" ";
    for (int i = 0; i < n; i++)
    {
        if (arr[i] > thirdmax && arr[i] != mx && arr[i]!=smax)
        {
            thirdmax = arr[i];
        }
    }
    cout<<thirdmax<<" ";
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
85 55 26
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2>
```

question3.cpp > main()

```cpp
// Check if the given array is sorted or not
// Count the number of elements strictly greater than x.
#include <iostream>
using namespace std;
int main()
{
    int arr[] = {5, 8, 9, 6, 7, 55, 14, 26, 85, 12, 11};
    int n = sizeof(arr) / sizeof(arr[0]);
    bool flag = true;
    for(int i=0;i<n-1;i++){
        if(arr[i]<arr[i+1]) flag = true;
        else{
            flag = false;
            break;
        }
    }
    if(flag==true) cout<<"Array is sorted.";
    else cout<<"Array is not sorted.";
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
Array is not sorted.
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2>
```

question4.cpp

```cpp
// Find the difference between the sum of elements at even indices to the sum of elements at odd indices
#include <iostream>
using namespace std;
int main()
{
    int arr[] = {5, 8, 9, 6, 7, 55, 14, 26, 85, 12, 11};
    int n = sizeof(arr) / sizeof(arr[0]);
    int sumEven = 0;
    int sumOdd = 0;
    int difference;
    for (int i = 0; i < n; i++)
    {
        if (i % 2 == 0)
        {
            sumEven += arr[i];
        }
        else
        {
            sumOdd += arr[i];
        }
    }
    difference = sumEven - sumOdd;
    cout << "Difference: " << difference << endl;
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2> cd "c:\Users\SANDEEP\Desktop\coding\c++\class assignmen
stion4 } ; if ($?) { .\question4 }
Difference: 24
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2>
```

question5.cpp > main()

```cpp
// Given an array of integers, change the value of all odd indexed elements to its second multiple
// and increment all even indexed values by 10.
#include <iostream>
using namespace std;
int main()
{
    int arr[] = {5, 8, 9, 6, 7, 55, 14, 26, 85, 12, 11};
    int n = sizeof(arr) / sizeof(arr[0]);
    for (int i = 0; i < n; i++)
    {
        if (i % 2 == 0)
        {
            arr[i] += 10;
        }
        else
        {
            arr[i] *= 2;
        }
    }
    for(int i=0;i<n;i++){
        cout<<arr[i]<<" ";
    }
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2> cd "c:\Users\SANDEEP\Desktop\coding\c++\cla
stion5 } ; if ($?) { .\question5 }
15 16 19 12 17 110 24 52 95 24 21
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2>
```

question6.cpp

```cpp
// Find the unique number in a given Array where all the elements are being repeated twice with one
//value being unique.
//
#include <iostream>
using namespace std;

int main()
{
    int arr[5] = {2, 2, 1, 1, 20};
    for (int i = 0; i < 5; i++)
    {
        int count = 0;
        for (int j = 0; j < 5; j++)
        {
            if (arr[i] == arr[j])
                count++;
        }
        if (count == 1)
        {
            cout << arr[i];
            return 0;
        }
    }
    cout << "No unique value.";
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2> cd "c:\Users\SANDEEP\Desktop\coding\c++\class assig
stion6 } ; if ($?) { .\question6 }
20
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2>
```

question7.cpp

question7.cpp > main()

```cpp
// If an array arr contains n elements, then check if the given array is a palindrome or not .
#include <iostream>
using namespace std;
int main()
{
    int arr[] = {5, 8, 9, 6, 7, 55, 14, 26, 85, 12, 11};
    int n = sizeof(arr) / sizeof(arr[0]);
    bool isPalindrome = true;
    for (int i = 0; i < n / 2; i++)
    {
        if (arr[i] != arr[n - i - 1])
        {
            isPalindrome = false;
            break;
        }
    }
    if (isPalindrome)
        cout << "Array is a palindrome.";
    else
        cout << "Array is not a palindrome.";
}

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2> cd "c:\Users\SANDEEP\Desktop\coding\c++\class
stion7 } ; if ($?) { .\question7 }
Array is not a palindrome.
PS C:\Users\SANDEEP\Desktop\coding\c++\class assignment\Array2>
```

question8.cpp

```cpp
// Find the error.
//double getAverage(int arr[], int size);
// int main()
// {
//     int balance[5] = {1000, 2, 3, 17, 50};
//     double avg;
//     avg = getAverage(balance[0], 5);
//     cout << "Average value is: " << avg << endl;
//     return 0;
// }


//answer :-- Incorrect function call.

```