

Question 1

```
#include<iostream>
using namespace std;
int main()
{
    int t;
    cout<<"Enter number of elements ";
    cin>>t;
    int arr[t];
    for(int i=0;i<t;i++)
    {
        int c;
        cin>>c;
        arr[i]=c;
    }
    //reverse
    for(int f=0;f<t/2;f++)
    {
        int g= arr[f];
        int h=arr[t-f-1];
        arr[f]=h;
        arr[t-f-1]=g;
    }
    for(int i=0;i<t;i++)
    {
        int j=arr[i];
        cout<<j<<" ";
    }
    cout<<endl;
    //sort
    for(int i = 0; i < t; i++) {
        for (int j =i+1; j <t; j++) {
            if (arr[i] > arr[j]) {
                int h= arr[i];
                arr[i] = arr[j];
                arr[j] =h;
            }
        }
    }
    for (int i = 0; i <t; i++) {
        cout << arr[i] << " ";
    }
    cout<<endl;
    for(int i = 0; i < t; i++) {
        for (int j =i+1; j <t; j++) {
            if (arr[i] <arr[j]) {
```

```

        int h= arr[i];
        arr[i] = arr[j];
        arr[j] =h;
    }
}
}
for (int i = 0; i <t; i++) {
    cout << arr[i] << " ";
}
cout<<endl;
}

```

Output-

```

PS C:\Users\HP\OneDrive\Desktop\C++\Assi
1 }
Enter number of elements 10
1 3 7 3 9 2 6 0 45 21
21 45 0 6 2 9 3 7 3 1
0 1 2 3 3 6 7 9 21 45
45 21 9 7 6 3 3 2 1 0

```

Question 2

```

#include<iostream>
using namespace std;
int main()
{
    int arr[10];
    cout<<"Enter the elements of Array";
    for(int i=0;i<10;i++)
    {
        int c;
        cin>>c;
        arr[i]=c;
    }
    int c1=0,c2=0,c3=0,c4=0;
    for(int f=0;f<10;f++)
    {
        int c=arr[f];
        int m;
        int n=(-1)*c;
        m=(c>0)?c:n;
        if(c>0)
        {
            c1++;

```

```

    }
    else
    {
        c2++;
    }
    if(m%2==0)
    {
        c3++;
    }
    else
    {
        c4++;
    }
}
cout<<c1<<" "<<c2<<" "<<c3<<" "<<c4;
}

```

Output-

```

Enter the elements of Array
1 2 -1 6 8 -5 9 10 3 -6
7 3 5 5
D:\C++\Users\UP\OneDrive\Desktop

```

Question 3

```

#include<iostream>
using namespace std;
int main()
{
    int n;
    cin>>n;
    double x,a;
    cout<<"a lies in (0,1)";
    cin>>x>>a;
    double arr[n][2];
    arr[0][0]=x;
    arr[0][1]=x*a;
    for(int i=1;i<n;i++)
    {
        arr[i][0]=arr[i-1][1];
        arr[i][1]=a*arr[i][0];
    }
    for(int i=0;i<n;i++)
    {
        cout<<"("<<arr[i][0]<<','<<arr[i][1]<<")"<<endl;
    }
    return 0;
}

```

```
}
```

Output-

```
10
a lies in (0,1)
64 0.5
(64,32)
(32,16)
(16,8)
(8,4)
(4,2)
(2,1)
(1,0.5)
(0.5,0.25)
(0.25,0.125)
(0.125,0.0625)
```

Question 4

```
#include<iostream>
using namespace std;
int main()
{
    int first_value=8,second_value=9;
    int* my_pointer;
    cout<<first_value<<" "<<second_value<<endl;
    my_pointer=&first_value;
    *my_pointer=second_value;
    my_pointer=&second_value;
    *my_pointer=3;
    cout<<first_value<<" "<<second_value;
}
```

Output-

```
PS C:\Users\HP\OneDrive\Desktop\C++\Assignment 5> cd ..
4 }
8 9
9 3
PS C:\Users\HP\OneDrive\Desktop\C++\Assignment 5>
```

#### Question 5

```
#include<iostream>
using namespace std;
int main()
{
    int Array[3][3]={{1,2,3},{4,5,6},{7,8,9}};
    // first part
    cout<<"First Part"<<endl;
    for(int i=0;i<3;i++)
    {
        for(int j=0;j<3;j++)
        {
            int c=Array[i][j];
            cout<<c<<" ";
        }
        cout<<endl;
    }
    cout<<"Second Part"<<endl;
    //second part
    for(int i=0;i<3;i++)
    {
        for(int j=0;j<3;j++)
        {
            cout<<*(&Array[i][j])<<" ";
        }
        cout<<endl;
    }
    //third part
    cout<<"Third Part"<<endl;
    for(int i=0;i<3;i++)
    {
        for(int j=0;j<3;j++)
        {
            int *p=&Array[i][j];
            cout<<*p<<" ";
        }
        cout<<endl;
    }
}
```

```
}
```

Output-

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

First Part
1 2 3
4 5 6
7 8 9
Second Part
1 2 3
4 5 6
7 8 9
Third Part
1 2 3
4 5 6
7 8 9
PS C:\Users\HP\OneDrive\Desktop\C++\Assignment 5>
```

Question 6

```
#include<iostream>
using namespace std;
int main()
{
    int m,n;
    cin>>m>>n;
    int arr1[m][n];
    int arr2[m][n];
    for(int i=0;i<m;i++)
    {
        for(int j=0;j<n;j++)
        {
            int c;
            cin>>c;
            arr1[i][j]=c;
        }
    }
    for(int i=0;i<m;i++)
    {
        for(int j=0;j<n;j++)
        {
            int c;
            cin>>c;
```

```

        arr2[i][j]=c;
    }
}
int arr3[m][n];
for(int i=0;i<m;i++)
{
    for(int j=0;j<n;j++)
    {
        int g=arr1[i][j];
        int h=arr2[i][j];
        arr3[i][j]=g+h;
    }
}
for(int i=0;i<m;i++)
{
    for(int j=0;j<n;j++)
    {
        int c;
        c=arr3[i][j];
        cout<<c<<" ";
    }
    cout<<endl;
}
}

```

Output-

```

PS C:\Users\HP\OneDrive\Desktop\C++\Assignment 5> cd ..
6 }
4 2 m, n
1 3
5 7
9 11
13 15
1 3
5 7
9 11
13 15
2 6
10 14
18 22
26 30
PS C:\Users\HP\OneDrive\Desktop\C++\Assignment 5>

```