Name   : Dev Adnani
SID   : 202212012
Subject   : Ds-Algo
Topic   : Array
Lab   : 01

Program 1:

```cpp
#include <iostream>
using namespace std;
int main()
{
    int arr[] = {1,2,3,4,5,6};
    for(int i=0;i<=5; i++)
        {
            cout<<arr[i]<<" ";
        }
        cout<<endl;
        for(int i=5;i>=0; i--)
        {
            cout<<arr[i]<<" ";
        }
        return 0;
}
```

O/P :

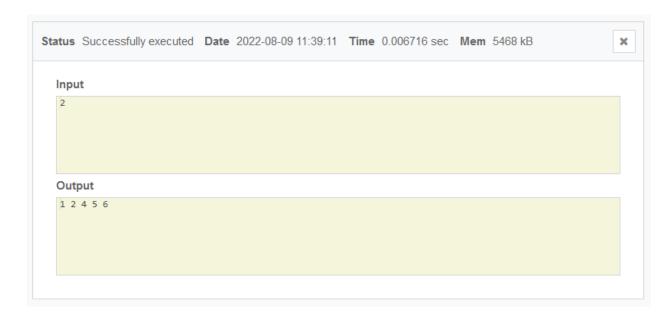**Status** Successfully executed **Date** 2022-08-08 10:44:25 **Time** 0.006483 sec **Mem** 5456 kB ✖

Output

```
1 2 3 4 5 6
6 5 4 3 2 1
```

Program 2:

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

int main()
{
int i,no,pos;
int a[] = {1,2,3,4,5,6};
cin>>pos;

for(i=pos;i<=5;i++)
{
 a[i]=a[i+1];
}

for(i=0;i<5;i++)
{
 cout<<a[i]<<" ";
}

return 0;
}
```

O/P :

Status Successfully executed   Date 2022-08-09 11:39:11   Time 0.006716 sec   Mem 5468 kB   ✖

Input

2

Output

1 2 4 5 6

Program 3:

```cpp
#include <bits/stdc++.h>
using namespace std;

int main() {

    int arr[] = {1,2,3,4,5,6};
    int n = sizeof(arr) / sizeof(arr[0]);

    cout << "Minimum number of array:" << *min_element(arr, arr + n)<<endl;
    cout << "Maximum number of array:" << *max_element(arr, arr + n);

        return 0;
}
```

O/P :

Status Successfully executed   Date 2022-08-08 10:46:10   Time 0.007926 sec   Mem 5440 kB   ✖

Output

```
Miniumum number of array:1
Maximum number of array:6
```

Program 4:
```cpp
#include <iostream>
using namespace std;

int main()
{
  int arr[] = {5,10,15,20};
  int sum = 0;
  int n = sizeof(arr) / sizeof(arr[0]);

  for(int i=0;i<n; i++)
  sum += arr[i];

  cout<<"Sum : "<<sum;
  return 0;
}
```

O/P :

| Status Successfully executed | Date 2022-08-08 10:47:58 | Time 0.007304 sec | Mem 5364 kB | ✖ |

Output

```
Sum : 50
```

Program 5:
```cpp
#include <iostream>
using namespace std;

int main() {

    int arr[7] = {1,2,3,4,5,6};
    int no;
    cin>>no;
    arr[6] = no;

    for(int i=0;i<=6; i++)
    {
    cout<<arr[i]<<" ";
    }

    return 0;
}
```

O/P :