

Practical 02 (Index – 22001212)

01)

```
#include <iostream>

using namespace std;

int main()
{
    int arr[5];
    cout<<"\nEnter the numbers:"<<endl;
    for(int i=0;i<5;i++){
        cin>>arr[i];
    }
    cout<<"\nValues in forward order:";
    for(int i=0;i<5;i++){
        cout<<arr[i]<<",";
    }
    cout<<"\nValues in reverse order:";
    for(int i=4;i>=0;i--){
        cout<<arr[i]<<",";
    }
    return 0;
}
```

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```
Enter the numbers:
6
8
7
9
2

Values in forward order:6,8,7,9,2,
Values in reverse order:2,9,7,8,6,
Process returned 0 (0x0)   execution time : 6.283 s
Press any key to continue.
```

02)

```
#include <iostream>

using namespace std;

int main()
{
    int a;
    cout<<"\nEnter the value of a :";
    cin>>a;
    cout<<"\n.....";
    cout<<"\nThe value of ++a is:"<<++a;
    cout<<"\nNow the value of a is:"<<a;
    cout<<"\n.....";
    cout<<"\nThe value of a++ is:"<<a++;
    cout<<"\nNow the value of a is:"<<a;
    cout<<"\n.....";
    cout<<"\nThe value of --a is:"<<--a;
    cout<<"\nNow the value of a is:"<<a;
    cout<<"\n.....";
    cout<<"\nThe value of a-- is:"<<a--;
    cout<<"\nNow the value of a is:"<<a;
    return 0;
}
```

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```
Enter the value of a :20

.....
The value of ++a is:21
Now the value of a is:21
.....
The value of a++ is:21
Now the value of a is:22
.....
The value of --a is:21
Now the value of a is:21
.....
The value of a-- is:21
Now the value of a is:20
Process returned 0 (0x0)    execution time : 2.094 s
Press any key to continue.
```

03)

```
#include <iostream>

using namespace std;

int main()
{
    int arr[3];
    cout<<"Enter 3 numbers:";
    for(int i=0;i<3;i++){
        cin>>arr[i];
    }
    int max=arr[0];
    for(int i=0;i<3;i++){
        if(arr[i]>=max){
            max=arr[i];
        }
    }
    cout<<"The maximum number is : "<<max;

    return 0;
}
```

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Enter 3 numbers:5

87

23

The maximum number is :87

Process returned 0 (0x0) execution time : 7.345 s

Press any key to continue.

04)

```
#include <iostream>

using namespace std;

int main()
{
    for(int i=1;i<=7;i++){
        for(int j=1;j<=i;j++){
            cout<<j;
        }
        for(int k=6;k>=i;k--){
            cout<<"*";
        }
        cout<<"\n";
    }
    return 0;
}
```

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```
1*****
12*****
123*****
1234***
12345**
123456*
1234567
```

Process returned 0 (0x0) execution time : 0.062 s
Press any key to continue.

05)


```
main.cpp X
1  #include <iostream>
2
3  using namespace std;
4
5  int main()
6  {
7      int arr[10], temp;
8      cout<<"\nEnter the numbers:"<<endl;
9      for(int i=0; i<10; i++){
10         cin>>arr[i];
11     }
12     for(int i=0; i<10; i++){
13         for(int j=0; j<10; j++){
14             if(arr[i]<arr[j]){
15                 temp=arr[i];
16                 arr[i]=arr[j];
17                 arr[j]=temp;
18             }
19         }
20     }
21     cout<<"\nNumbers in ascending order:";
22     for(int i=0; i<10; i++){
23         cout<<arr[i]<<",";
24     }
25     for(int i=0; i<10; i++){
26         for(int j=0; j<10; j++){
27             if(arr[i]>arr[j]){
28                 temp=arr[i];
29                 arr[i]=arr[j];
30                 arr[j]=temp;
31             }
32         }
33     }
34     cout<<"\nNumbers in descending order:";
35     for(int i=0; i<10; i++){
36         cout<<arr[i]<<",";
37     }
38     return 0;
```

```
Enter the numbers:
5
7
9
2
3
6
1
4
9
2

Numbers in ascending order:1,2,2,3,4,5,6,7,9,9,
Numbers in descending order:9,9,7,6,5,4,3,2,2,1,
Process returned 0 (0x0)   execution time : 13.799 s
Press any key to continue.
```

06)

```
main.cpp x
1      #include <iostream>
2
3      using namespace std;
4
5      int main()
6      {
7          for(int i=30;i>=10;i--){
8              cout<<"Square of "<<i<<" is : "<<i*i<<endl;
9          }
10         return 0;
11     }
12
```

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```
Square of 30is : 900  
Square of 29is : 841  
Square of 28is : 784  
Square of 27is : 729  
Square of 26is : 676  
Square of 25is : 625  
Square of 24is : 576  
Square of 23is : 529  
Square of 22is : 484  
Square of 21is : 441  
Square of 20is : 400  
Square of 19is : 361  
Square of 18is : 324  
Square of 17is : 289  
Square of 16is : 256  
Square of 15is : 225  
Square of 14is : 196  
Square of 13is : 169  
Square of 12is : 144  
Square of 11is : 121  
Square of 10is : 100
```

```
Process returned 0 (0x0)   execution time : 0.078 s  
Press any key to continue.
```

main.cpp X

```
1  #include <iostream>
2
3  using namespace std;
4
5  void reverseArray(int a[],int s){
6      for(int i=s;i>0;i--){
7          cout<<a[i]<<" ";
8      }
9  }
10
11 int main()
12 {
13     int n;
14     int arr[n];
15     cout<<"\nEnter the size of the array : ";
16     cin>>n;
17     cout<<"\nEnter the numbers:"<<endl;
18     for(int i=0;i<n;i++){
19         cin>>arr[i];
20     }
21     cout<<"\nArray in reverse order";
22
23     reverseArray(arr,n);
24     return 0;
25 }
```

07)