# Assignment No: 02

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**Batch: C**
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## Part A:Game Development

**Program:**

```cpp
#include<iostream>
using namespace std;
int main()
{
int player[10],n,temp;
cout<<"Enter the score:"<<endl;
cin>>n;

cout<<"The score for players are:"<<endl;
for(int i=0;i<n;i++)
{
cin>>player[i];
}
for(int i=0;i<n;i++)
{
for(int j=0;j<n-i-1;j++)
{
if(player[j]>player[j+1]){
temp=player[j];
player[j]=player[j+1];
player[j+1]=temp;
}
}
}
cout<<"The Sorted scores of player are :"<<endl;
for(int i=0;i<n;i++)
{
cout<<player[i]<<"\t";
}
return 0;
}
```
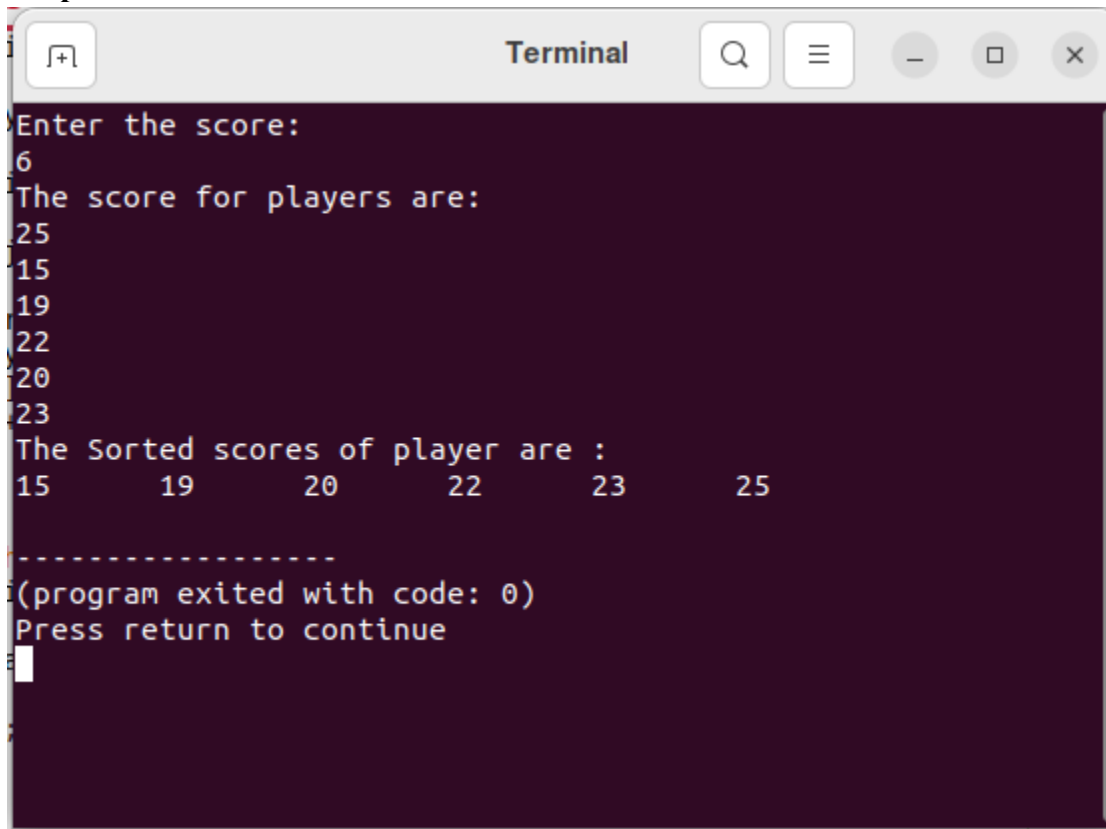
**Output:**



**Part B:-Organizing Cards in a Hand**

**Program:**
```cpp
#include <iostream>
using namespace std;
int main()
{
    int cards[10], n, j;
    int key;
    cout << "Enter the number of cards:" << endl;
    cin >> n;
    cout << "Enter the cards No to sort:" << endl;
    for (int i = 0; i < n; i++)
    {
        cin >> cards[i];
    }

    for (int i = 1; i < n; i++)
    {
```

```cpp
        key = cards[i];
        j = i - 1;
        while (j >= 0 && cards[j] > key)
        {
            cards[j + 1] = cards[j];
            j = j - 1;
        }
        cards[j + 1] = key;
    }

    cout << "The sorted cards are :" << endl;
    for (int i = 0; i < n; i++)
    {
        cout << cards[i] << endl;
    }

    return 0;
}
```
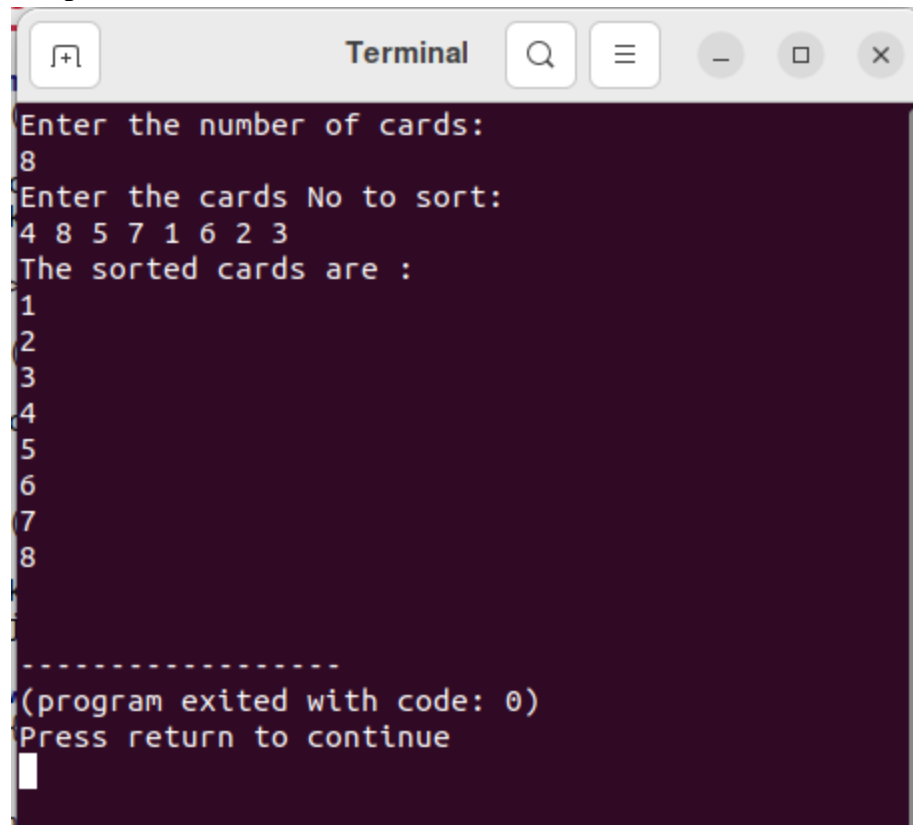
**Output:**