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-13
Q1
#include <iostream>
using namespace std;
class Student
public:
// Overloaded function to find maximum of two scores
int maximum(int score1, int score2)
{
return (score1 > score2) ? score1 : score2;
}
// Overloaded function to find maximum score from an array
int maximum(int *a, int arrayLength)
{
int maxScore = a[0];
for (int i = 1; i < arrayLength; ++i)</pre>
{
if (a[i] > maxScore)
{
maxScore = a[i];
}
}
return maxScore;
}
};
int main()
Student student;
int score1, score2;
```

cout << "Enter score 1: ";</pre>

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cin >> score1;
cout << "Enter score 2: ";</pre>
cin >> score2;
cout << "Maximum score of the two students: " << student.maximum(score1,</pre>
score2) << endl;
int arrayLength;
cout << "Enter the number of scores in the array: ";</pre>
cin >> arrayLength;
int *scores = new int[arrayLength];
cout << "Enter" << arrayLength << " scores: ";</pre>
for (int i = 0; i < arrayLength; ++i)
{
cin >> scores[i];
}
cout << "Maximum score from the array: " << student.maximum(scores,</pre>
arrayLength) << endl;</pre>
delete[] scores;
return 0;
}
Q2
#include <iostream>
using namespace std;
class Distance
private:
int kilometers;
int meters;
public:
void acceptDistance()
cout << "Enter distance in kilometers: ";</pre>
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cin >> kilometers;
cout << "Enter distance in meters: ";</pre>
cin >> meters;
}
void displayDistance()
{
cout << "Distance: " << kilometers << " kilometers and " << meters <<
" meters" << endl;
}
bool operator>(const Distance &other)
{
if (kilometers > other.kilometers)
return true;
else if (kilometers == other.kilometers && meters > other.meters)
return true;
else
return false;
}
};
int main()
Distance distance1, distance2;
cout << "Enter details for the first distance:\n";</pre>
distance1.acceptDistance();
cout << "\nEnter details for the second distance:\n";</pre>
distance2.acceptDistance();
cout << "\nDetails of the first distance:\n";</pre>
distance1.displayDistance();
cout << "\nDetails of the second distance:\n";</pre>
distance2.displayDistance();
if (distance1 > distance2)
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cout << "\nThe first distance is greater.\n";
else
cout << "\nThe second distance is greater or equal.\n";
return 0;
}</pre>
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