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Q1
#include <iostream>
using namespace std;
class Numbers {
private:
int num1, num2;
public:
// Default constructor
Numbers() {
num1 = 0;
num2 = 0;
}
// Parameterized constructor with default values
Numbers(int n1, int n2 = 0) \{
num1 = n1;
num2 = n2;
}
// Function to display maximum of two numbers
void displayMax() {
cout << "Maximum of " << num1 << " and " << num2 << " is: " << (num1 >
num2 ? num1 : num2) << endl;
}
};
int main() {
// Creating and initializing objects using default constructor and
parameterized constructor with default values
Numbers obj1; // Default constructor
Numbers obj2(5); // Parameterized constructor with default value for num2
Numbers obj3(10, 7); // Parameterized constructor with provided values
// Displaying maximum for all objects
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obj1.displayMax();
obj2.displayMax();
obj3.displayMax();
return 0;
}
Q2
#include <iostream>
using namespace std;
class Time
{
private:
int hours;
int minutes;
int seconds;
public:
Time(): hours(0), minutes(0), seconds(0) {}
friend istream & operator>>(istream & in, Time &t);
friend ostream & operator << (ostream & out, const Time &t);
int totalSeconds()
{
return hours * 3600 + minutes * 60 + seconds;
}
};
istream &operator>>(istream &in, Time &t)
{
cout << "Enter hours: ";</pre>
in >> t.hours;
cout << "Enter minutes: ";</pre>
in >> t.minutes;
cout << "Enter seconds: ";</pre>
in >> t.seconds;
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return in;
}
ostream & operator << (ostream & out, const Time & t)
{
out << t.hours << " hours, " << t.minutes << " minutes, " << t.seconds <<
" seconds";
return out;
}
int main()
{
Time t;
cout << "Enter time:" << endl;</pre>
cin >> t;
cout << "Entered time: " << t << endl;</pre>
cout << "Total seconds: " << t.totalSeconds() << endl;</pre>
return 0;
}
```