Week 7-8-9

Q6. Program to overload class constructors

#include <iostream>

using namespace std;

class Box {

public:

double length;

// Default constructor

Box() : length(1.0) {}

// Parameterized constructor for length only

Box(double len) : length(len) {}

// Copy constructor

Box(const Box &b) : length(b.length) {}

};

int main() {

Box box1; // Calls default constructor

Box box2(5.0); // Calls parameterized constructor

cout << "Box1 Length: " << box1.length << "\n"; // Outputs default length

cout << "Box2 Length: " << box2.length << "\n"; // Outputs parameterized length

return 0;

}