Week 7-8-9

Q5. Demonstrate constructors: default, parameterised, copy

#include <iostream>

#include <string>

using namespace std;

class Student {

public:

int id;

string name;

// Default constructor

Student() : id(0), name("Unknown") {}

// Parameterized constructor

Student(int i, const string &n) : id(i), name(n) {}

// Copy constructor

Student(const Student &s) : id(s.id), name(s.name) {}

void display() const {

cout << "ID: " << id << ", Name: " << name << endl;

}

};

int main() {

Student s1; // Default constructor

s1.display();

Student s2(1, "Alice"); // Parameterized constructor

s2.display();

Student s3(s2); // Copy constructor

s3.display();

return 0;

}