

Week 07

Composition & Header Files

Lab 07 - Patient Info.

Create a class named Patient that includes an *ID_number*, *age* and *blood_data**. Provide a default constructor that sets the ID to "0", the age to "0", and the BloodData to "O" and '+'. Create an overloaded constructor that provides values for each field.

*BloodData shall be a separate class object that is utilized in the Patient Class. BloodData includes fields that hold a single String of *blood_type* which can be "O", "A", "B", or "AB" and a char *RhFactor* '+' or '-'. Create a default constructor that sets the fields to "O" and '+', and an overloaded constructor that provides values for each field.

****Place each class in a separate header file.**

Simple Main

Your main must only contain the following lines of code and execute with the expected output.

```
Patient Timmy;
cout<<"Patient ID: " << Timmy.getID() <<
    "\nPatient Age: " << Timmy.getAge() << endl;
Timmy.displayBlood();

Patient Spike(1337, 19, '-', "AB");
cout << "Patient ID: " << Spike.getID() <<
    "\nPatient Age: " << Spike.getAge() << endl;
Spike.displayBlood();
```

Expected Output:

```
Patient ID: 0
Patient Age: 0
Blood Type: O+
Patient ID: 1337
Patient Age: 19
Blood Type: AB-
```