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Foundations of Programming
Assignment 5

Student Algorithm

1. Define Student class
    a. Define initialization function
        i. Create instance of the class with accepted name and age
        ii. Save name and age to respective variables as strings
            1. Save to instance of object
    b. Define display function
        i. Print out the student instance's name and age
2. Define Engineer child class
    a. Define initialization function
        i. Create instances of subclass by pulling instance from student class
            1. Including name and age attributes
        ii. Save accepted course to course variable on instance of object
    b. Define display function
        i. Print out the engineer instance's name, age and course
3. Define Doctor child class
    a. Define initialization function
        i. Create instances of subclass by pulling instance from student class
            1. Including name and age attributes
        ii. Save accepted hospital to hospital variable on instance of object
    b. Define display function
        i. Print out the doctor instance's name, age and course
4. Define main function
    a. Create instance of engineer
    b. Display instance
    c. Create instance of doctor
    d. Display doctor
5. Call main function