Practice Exercise- Inheritance

DO NOT SUBMIT (IT IS NOT AN EXTRA CREDIT EXERCISE!!)

Create the following inheritance program:

1. Class A is the super class with attributes**: public int d and private String s**. Write the default and non default constructors. Include a display command in each that displays “This is the default constructor of A” or “ This is the non default constructor of A”.

Besides the constructors write a method: public void method1().

Inside the method write the code to display the message: "method1 of A executed"

No other methods need to be written.

1. Class B inherits A. The attributes are: public double g , private int r. Write the default and non default constructors. Each constructor also has a display i.e "The default constructor of B was executed" or "The non default constructor of B was executed".

Write the methdod:

public int method2(int h)

{

System.out.println("method 2 of B was executed");

method1();

return h\*2;

}

No other methods need to be coded.

1. Create class called Client

In the main method create an object of B using the default constructor. Use that object to invoke the method method1 of A.

Next create an object of B using the non default constructor of B. Use it to invoke method2 of B and pass it the value 10.

1. Why method1 was called in method2 of class B without an object of A invoking it? Answer it to the TA or instructor who checks your work.