COP3022-Intermediate - Project 4 (polymorphism)

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Create a java class named "Vehicle". This class must have the followings;

- A private instance variable named "speed" as int type.
- Parameterized constructor.
- Setter and getter methods for speed.
- A getRaceSpeed method which returns the 2 times of speed.
- A compareRaceSpeeds method. The object compares its own race speed with the race speed of another vehicle.

Create a java class named "Plane" which must be a subclass of Vehicle. This class must have the followings;

- A parameterized constructor that takes an int type.
- You must not declare any instance variable in this class.
- A getRaceSpeed method which returns the 3 times of speed.

A tester class is available in elearning. Download this file, and run it with your classes to get the same screenshot as given below. Do not modify Tester class except changing your fullname. Do not submit Tester class.

Sample output

TOTALICAE TOOLOT (TO) LOUTA APPROACIONS (EISTALS)

Programmed by Bilal Gonen.

My race speed (100) is faster than 90

My race speed (100) is slower than 120

My race speed (90) is slower than 100

My race speed (120) is faster than 100

My race speed (120) is faster than 90

Submission

- Submit 3 files (Vehicle.java, Plane.java, 1 screenshot).
- Follow submission instructions in e-learning.