Lab 12: Introduction to Inheritance

Objective

Practice Inheritance.

Background Information

Refer to the lecture notes for more details.

Material

- Dr Java

Lab Instructions:

Complete the following exercises:

http://www.seas.upenn.edu/~palsetia/java/Botworld/betterbot/assignment.html

Post-Lab Questions (Put your answers as comments in BetterBot.java)

1. Answer the following questions related to betterbot exercise:
   a. Consider the following statements:

      Bot b = new BetterBot(new BotWorld());
      System.out.println(b.toString());

      What is the outcome when the print statement is executed if:
      i) toString() is present only in the Bot class
      ii) toString() is overridden in the BetterBot class

   b. Is the following statement below valid?
      BetterBot b = new Bot(new BotWorld());

   c. Consider the following statement:
      Bot b = new BetterBot(new BotWorld());
      b.turnRight();

      Does the above code execute? If not, is it a compile-time or a runtime error?

Turn-in the necessary files needed for each lab exercise to Blackboard.