AP Computer Science A

Summer Packet In Lieu of Introduction to Intro to Computer Programming

*Students who have **not** completed the Introduction to Computer Programming Course are expected to complete some exercises from the Intro Comp Prog course to help get you up to speed.*

1. Go to http://www.Jeroo.org

2. Download the software to your computer (two files, one is the icon)

3. Select Java as the language

Read trough each PowerPoint in the zipped file. Complete the tasks from the list below. Save each project separately. Bring these .jsc files into schools for the first day of class. They will be collected and graded. (50 points)

**ALL AP CS Students** need to install Java and BlueJ and complete the summer assignment on the other instructions. AP Computer Science A Summer Packet In Lieu of Introduction to Intro to Computer Programming

**Complete the following assignments using the program Jeroo. Read through the first Three PowerPoints 00, 01 and 02 to get an idea of what you are working with before beginning.**

1. **Letter:** Create a Jeroo that plants flowers in the shape of the initial for your first name.

2. **Pick and Plant**: Create a Jeroo that starts at (1,1) facing North with now flowers that picks a flower from (4,6) and (8,8) and then plants them side by side at (10,11) and (10,12) then moves one space off of the two flowers and turns back to face and admire them.

3. **Pick and Plant 2** Using the pick2 island, create a Jeroo that starts at (1,1) facing North with no flowers, that picks a flower from (4,6) and (8,8) and then plants them side by side at (10,11) and (10,12). The Jeroo then moves one space off of the two flowers and turns back to face and admire them.

4. **Pick and Plant 3** Using the pick3 island, create a Jeroo that starts at (1,1) facing North with no flowers, that picks a flower from (4,6) and (8,8) and then plants them side by side at (10,11) and (10,12). The Jeroo then moves one space off of the two flowers and turns back to face and admire them.

5. **Rows of Flowers** Review the material in the 03 Writing Methods PowerPoint. Using the default island and a Jeroo that starts with 20 flowers, plant them in rows of 4, with an empty row between each flower row. What commands will be repeated? Create at least 3 methods to make the Jeroo plant the flowers. Comment each method to explain what it is doing.

*For each of the following assignments, the same code must work in all test islands from the islands folder. I will test it with further islands to make sure it accurately completes each task. Review 04 Control Structure and 04 Control Structure part 2.*

6. **The Hurdle Race Problem**
Follow directions in the Hurdle Race Problem in the Jeroo folder.

7. **The Betrothal**
Open the betrothal word document and follow those instructions.

8. **Walk the Lake**
Follow the directions in the Walk the Lake problem.

9. **Pick All Flowers**
Follow the directions in the Pick all Flowers problem.

10. **The Maze**
Follow the directions in the Maze problem.