

Name: _____

Java Project

Choose a project appropriate for 10 hours of work inside class (7 classes) and outside class (3 hours). Suggestions are attached. The teacher is available for guidance.

PROPOSAL due Fri 3/21 _____

Write a paragraph explaining what you want to do. The teacher must approve the project.

PROJECT due Tue 4/1 _____

Demonstrate your finished project to the teacher and classmates.

Grading rubric

	Points
Quality of code	5
Quality of algorithm & logic	5
Design, Planning	5
Complexity	5
Difficulty	Extra credit
Originality	5
Correctness	5
Executability: does it run?	5
Code comments, documentation, instructions	5
Positive attitude	5
Independence	part of resourcefulness grade
Helpfulness to others	part of participation grade
Timeliness	5
Grade	
	out of 50 50 possible

Java Project ideas

To find ideas, google “Computer Programming Projects” “AP Computer Programming Projects” “Computer Science Programming Projects” “Java Programming Projects” “Computer Science Programming Projects”

Projects must incorporate topics from the previous chapters.

All students must use file reading and writing (Chapter 6) and arrays (Chapter 7).

Students further along must use classes and ArrayLists (which can be substituted for arrays).

- Games:
 - Tic tac toe
 - Checkers
 - Chess (no AI)

- Chapter 3G Graphics project, with modifications

- Chapter 5 project:
 - Pig Latin
 - Hangman (without the dictionary)
 - Guess a number
 - Rock Paper Scissors
 - 2-dim random walk with graphics

- Chapter 6 project:
 - Word count in a file
 - Differences between two files
 - Indenting java code
 - Completing a story

- Chapter 7 project:
 - Hangman with file read/write
 - Tic tac toe

- Chapters 8–11 projects for students who are farther along:
 - Chapter 8: Rational Numbers
 - Chapter 9: Critters
 - Chapter 10: Family Database
 - Chapter 11: Edit distance (or other project)

- <http://projecteuler.net/>
 - Any project or projects of reasonable difficulty
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- Simple calculator GUI
- Stop watch
- General diagnostics program that pings Google, etc.
- Game of life