

# Password Generator

## Warm up:

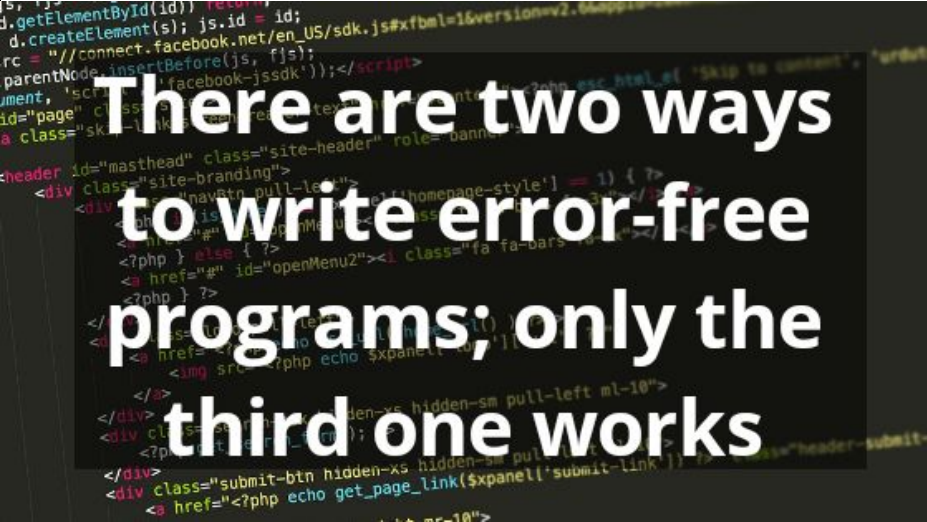
"Reality is painful - it's so much easier to keep doing stuff you know you're good at or else to pick something so hard there's no point at which it's obvious you're failing - but it's impossible to get better without confronting it." - Aaron Swartz  
(internet hacktivist)



Nothing works better than  
just improving your product.

Joel Spolsky

creativity



There are two ways  
to write error-free  
programs; only the  
third one works

# Lesson Objective:

I will be able to write code in Scratch for a password generator project.

Given the three levels of code provided and the past work on flowcharts and pseudocode, I will hand in a completed project.

**MS #1 Computational Thinking:** I can solve problems and build software using computational thinking principles

**MS #2 Programming:** I can solve problems and build software using programming principles

<b>Professional (4)</b>	Solves problems and builds software using computational thinking principles <b>almost always</b> correctly ( <b><math>\geq 80\%</math></b> attempts)
<b>Practitioner (3)</b>	Solves problems and builds software using computational thinking principles <b>usually</b> correctly ( <b><math>\geq 60\%</math></b> attempts)
<b>Apprentice (2)</b>	Solves problems and builds software using computational thinking principles <b>occasionally</b> correctly ( <b><math>\geq 40\%</math></b> attempts)
<b>Novice (1)</b>	Answer questions and writes code that uses basic elements of computing <b>incorrectly</b>
<b>INC</b>	No attempt

# Lesson Agenda:

Warm up (5 minutes)

Discussion (5 minutes)

Project Password Generator/Pear Deck (35 minutes)

Exit ticket (5 minutes)

# Performance Task: AP Exam

AP Exam is composed of two assessments: 1) multiple choice  
2) performance task.

We will go over the Performance task later on in fuller detail, but for now know that the exam will ask for you to create pseudocode and a flowchart for the performance task. The exam will also ask for a video of your code part that works.

# Review: Why is pseudocode important for an algorithm?

It is important because it gives you steps to follow so you can write your code better

Pseudocode **abstracts** the important information from the code and gives it back to the user in a non programming language.



# Review: What are flowcharts?

Flowcharts allow you to see a visual representation of the coding process.

# Pear Deck Login

[Password Generator Versions](#)

## Exit Ticket:

From a scale of one to four, I feel this confident about handing in my password generator project.