Declaring variables q1

# Revision history

V 1.0: initial release

# usage history

# problem description

1. What happens when you try to name a variable with a name that **starts with** a special character or a number?
2. What happens if you try to name a variable using a keyword? For example, what happens if you try to compile the line:  
     
   int int = 4;

# Solution

Part a:

It depends on the character. Underscores are allowed as characters to start a variable name. Numbers are not allowed and will not compile. Other special characters (aka: punctuation and math operations) will not compile.

Part b:

Keywords are not valid variable names and the program will not compile. However, keywords can be included in a variable name. For example, the name intX is allowed, although it may be considered stylistically questionable.

# suggested test cases

The student is encouraged to try to name variables incorrectly to better understand the errors that the compiler will throw.

# required topics

* Syntax of declaring variables of at least one data type