

**AP CSP Python with CodeX
Functions & Global Variables Activity Guide****Name:****Warm-Up**

What do you remember about creating functions?

Answers will vary. Answers could include:

- They are blocks of code with a name; can have a parameter.
- They can be called multiple times in a program.
- They accomplish a task.
- A form of procedural abstraction.

What do you remember about parameters?

Answers will vary. Answers could include:

- Information needed by the function to complete its task.
- Is like a local variable in the function.
- The name of the parameter is included in the function definition.
- The parameter is used in the function.
- The parameter gets its value from an argument in a function call.

What do you remember about local variables?

Answers will vary. Answers could include:

- Local variables are declared in a function.
- Local variables can only be used in the function they are defined in.
- Local variables don't exist outside the function.

Functions and Global Variables

What does a global statement (see example) do?
global choice

Answer should include:

- It keeps the value of the global variable after the function ends.

When do you need a global statement?

Answer should include:

- When you change the value of a global variable in a function.

When do you NOT need a global statement?

Answer could include:

- When you use a global variable but don't change its value.
- Also, when you don't have any global variables.

Functions and the Create PT Requirements

What did you add to the program for Example #3?

Answers will vary. They can include:

- Added a function for results.
- Added a local variable for correct.

What Create PT requirements does results() meet?

- Function has a parameter.
- Parameter is used to affect function execution.
- Function has a loop and an if statement.

Wrap-Up

What did you learn about global variables from the lesson?

Answers will vary.

What did you learn about meeting the function requirements for the Create PT form the lesson?

Answers will vary.

During this lesson you created a new program: PT_Practice2_results. Copy and paste a link to your code:

Student goes to File-Share File and then pastes the link here.