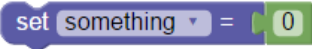
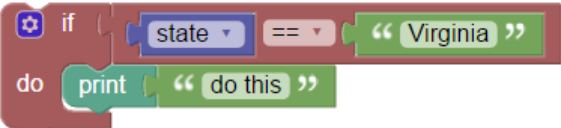
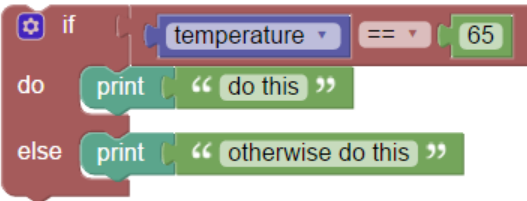
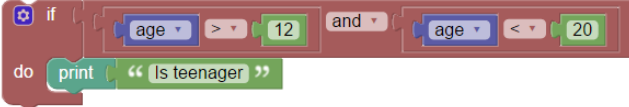
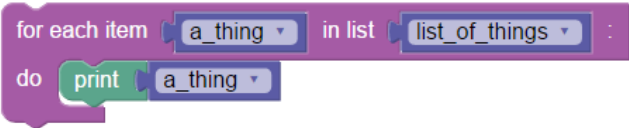






## A BlockPy-Python Guide

This guide shows a side-by-side comparison of BlockPy and Python syntax.

BlockPy	Python
Creating a new property (ASSIGNMENT) 	<pre>something = 0</pre>
IF statement with String test (DECISION) 	<pre>if state == "Virginia":     print("do this")</pre>
IF statement with ELSE clause (DECISION) 	<pre>if temperature == 65:     print("do this") else:     print("otherwise do this")</pre>
IF statement with AND (DECISION) 	<pre>if age &gt; 12 and age &lt; 20:     print("Is teenager")</pre>
FOR loop to process List (ITERATION) 	<pre>for a_thing in list_of_things:     print(a_thing)</pre>
Creating an empty List property (ASSIGNMENT) 	<pre>new_list = []</pre>
Adding to a List (APPEND) 	<pre>new_list.append(a_item)</pre>
Prompt for an input and convert to an integer 	<pre>number = int(input("Magnitude?"))</pre>
Plotting a List and showing the canvas (PLOTING) 	<pre>import matplotlib.pyplot as plt  plt.plot(new_list) plt.show()</pre>
Accessing big data <pre>import weather  weather_reports = weather.get_weather()</pre>	