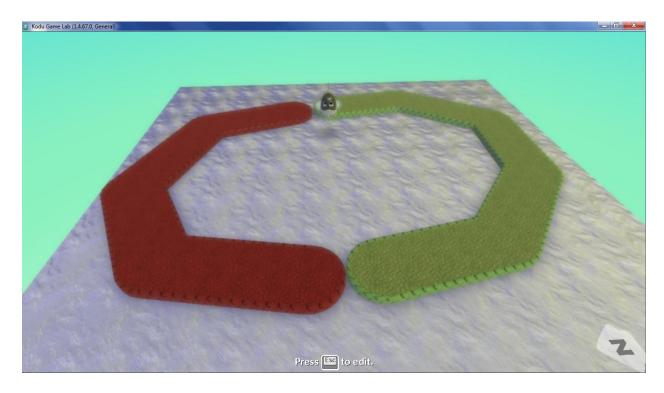
Student Questionnaire: Session 6

Version of June 4, 2015

- 1. What is the idiom for moving along a path?
- 2. Consider the world below, which has a red path and a yellow path that together form a circle:



The kodu wants to go around and around the circle. How many states will this require?

3. Draw a state machine diagram to describe your solution:

4. Write down the rules to make the kodu follow the circular trajectory:

- 5. Look at the paths in the ForkedPath1 world. View the world in the editor; don't run it. This will allow you to see the nodes and lniks that make up each path. A node looks like a sphere, and a link is a straight segment that connects two nodes.
 - a. How many nodes are in the red path? _____
 - b. How many links are in the red path? _____
 - c. How many nodes are in the white path? _____
 - d. How many links are in the white path? _____
 - e. In general, if a path has N nodes and no loops, how many links does it have?
 - f. How many nodes are in the orange path? _____
 - g. How many links are in the orange path? _____
 - h. Does this agree with your formula in part (e)? Why or why not?