

Name(s) _____ Period _____ Date _____

Activity Guide - Investigate: Selection Statements



Instructions

Go to **Level 2** on Code Studio and answer the following prompts. Change one line at a time, then run the program after each change to observe the results.

1) Look at the documentation for the Painter class and find the `isOnPaint()` method. What does this method do? What does this method return?

2) Find the `isFacingNorth()`, `isFacingSouth()`, `isFacingEast()`, and `isFacingWest()` methods in the documentation for the Painter class. What do these methods do? What do these methods return?

3) Find the `canMove(String direction)` method in the documentation for the Painter class. What does this method do? What is the purpose of the parameter `direction`?

4) Take a look at the last if statement on **Line 29**. Does this code execute when the program is run? Why or why not?

5) Add the following code to the program, then run the program to observe the results.

```
while (akira.canMove("south")) {  
    if (akira.isFacingEast()) {  
        akira.turnRight();  
    }  
  
    akira.move();  
}
```

What happens when you run the program?