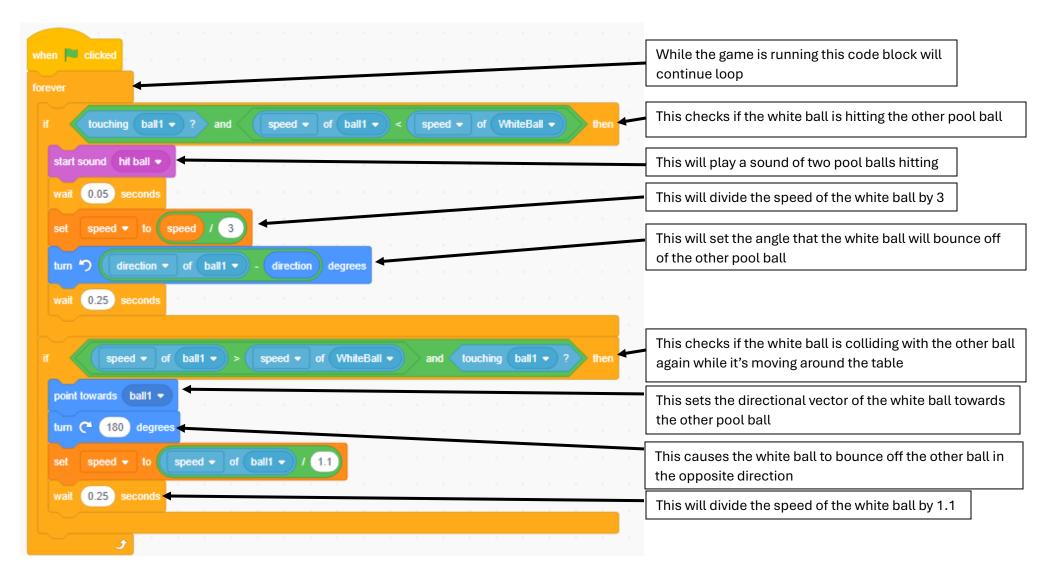


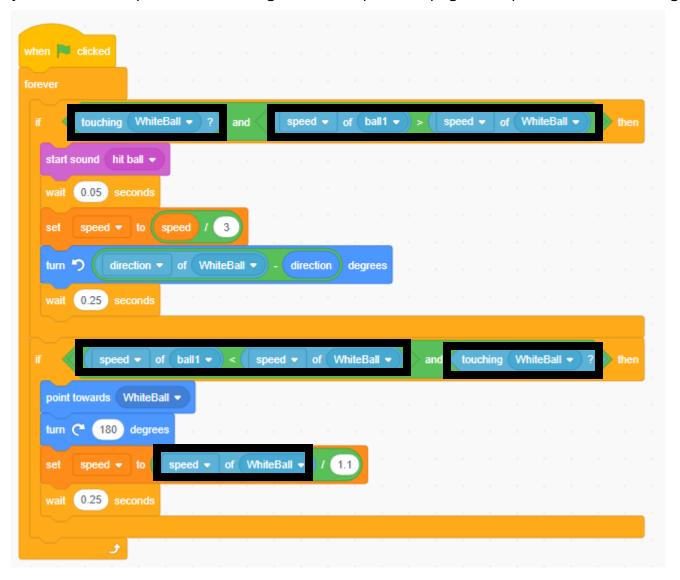
Using Scratch to Teach EventDriven Coding Skills Commented Code

This portion of the code effects how the white ball interacts with the other billiard ball





This portion of the code effects how one of the other pool balls will interact with the white ball. The code is generally the same. Only variables and operators are changed. Use the previous page to help with the small changes.



https://tapggc.org/



The code below shows interactions between four different pool balls. Notice that the values are the same, but the variables are different.

```
touching Ball4 * ? and speed * of ball1 * > speed * of Ball4 *
                                                                                              wait 0.05 second
 um ") direction • of WhiteBall • - direction
                                                                                              wait 0.25 seconds
        speed v of ball1 v < speed v of Ball4 v and touching Ball4 v ?
 point towards Ball4 +
                                                                                              point towards Ball5 ▼
                                                                                               turn C 180 degree
 set speed v to speed v of Ball4 v / 1.1
                                                                                                                speed ▼ of Ball5 ▼ / 1.1
                                                                                              wait 0.25 secon
wait 0.25 sec
     touching Ball3 ▼ ? and speed ▼ of ball1 ▼ > speed ▼ of Ball3 ▼
                                                                                                   touching Ball6 → ? and speed → of ball1 → > speed → of Ball6 →
                                                                                              wait 0.05 second
tum 🖰 direction 🕶 of Ball3 🕶 - direction
wait 0.25 secon
                                                                                              wait 0.25 secon
       speed ▼ of ball1 ▼ < speed ▼ of Ball3 ▼ ) and touching Ball3 ▼ ?
                                                                                              point towards Ball6 -
                 speed ▼ of Ball3 ▼ / 1.1
                                                                                              set speed ▼ to speed ▼ of Ball6 ▼ / 1.1
wait 0.25 seco
                                                                                              wait 0.25 second
```

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The following code blocks set the locations of the barriers for the level 3 code. Each code sets them at a specific x

and y-values

1

when clicked

set x to 60

This puts the barrier in the top right corner

when clicked
set x to -230
set y to 50

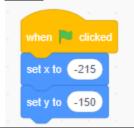
This puts the barrier in the top left corner

3

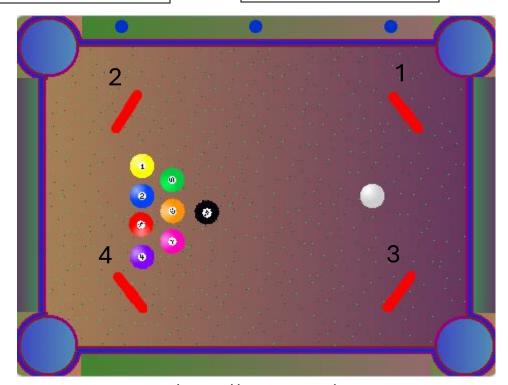
when clicked
set x to 42
set y to -130

This puts the barrier in the bottom right corner

4

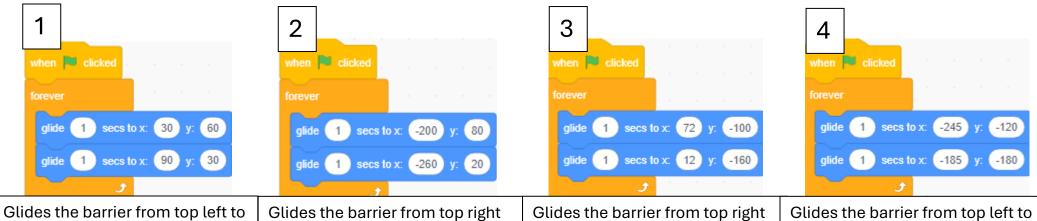


This puts the barrier in the bottom left corner



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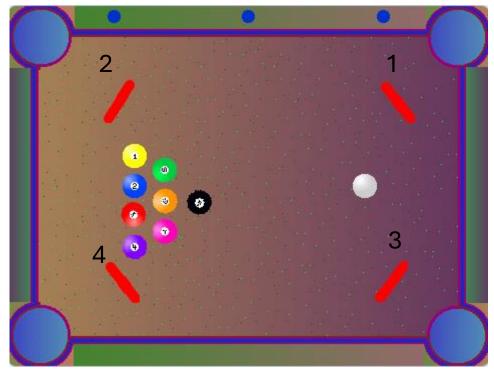


bottom right

Glides the barrier from top right to bottom left

Glides the barrier from top right to bottom left

Glides the barrier from top left to bottom right



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