**Scenario 3 – Moving around the stage**

**[Task 1]**

1. Open *Catch\_the\_Ball* and add code to the dog so that it catches the ball. With this you will create an animation, where you will see how the dog moves.
2. Use  and  blocks to make an animation.
3. With click on green flag dog is moved to the starting position with 
4. When you finish, don’t forget to save the program.

Catch the Ball: <https://snap.berkeley.edu/snap/snap.html#present:Username=spelac&ProjectName=C4G_Catch_the_ball>

**[Task 2]**

1. Open *Help monkey climb the tree* add code to the monkey to fetch the bananas.
2. Use  and  to make an animation of a monkey climbing on a palm tree.
3. Move monkey to starting position.
4. When monkey reaches bananas, it shall climb back to the starting point. The movement should look like an animation.
5. When you finish, don’t forget to save the program.

Help monkey climb the tree:

<https://snap.berkeley.edu/snap/snap.html#present:Username=spelac&ProjectName=C4G_Help_monkey_climb_the_tree>

**[Task 3]**

In both tasks you had to interchangeably use two blocks. How many times did you have to **repeat the code?**

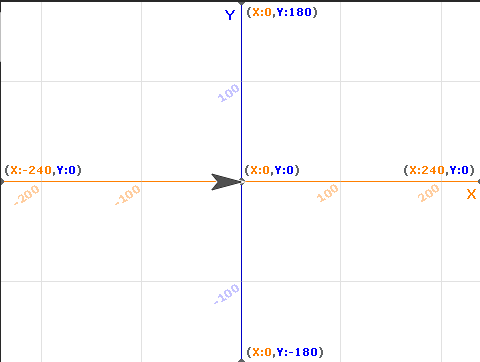
There is a shorter way of writing this code by telling the computer to **repeat** your code a given number of times.

1. Find a suitable block of code, that enables you to repeat the code.
2. Update your code for the monkey with the block you have found.
   1. Make a code for monkey to climb up the tree
   2. Make a code for monkey to climb down form a tree (to the starting position)
3. Update the code for the dog
   1. Make a code for the dog to run to the ball
   2. Make a code for the dog to return
   3. Additionally: try to figure out how to turn the dog around, so it doesn’t run backwards

The picture below shows the *stage*.

For moving left/right you move in x direction (right 🡪 +, left 🡪 -)

For moving up/down you move in y direction (up 🡪 +, down 🡪 -)



Remark:

*For moving right or up, you* ***never*** *write the* ***+*** *sign in front of the number, e.g. it is* ***not +240****, it is just* ***240****.*

*Picture : XY Grid Background to help you with moving in x and y direction*