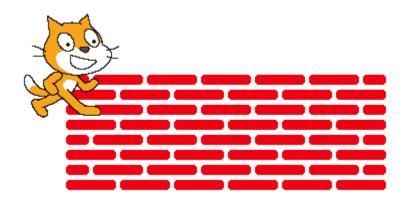
Homework 02 - Brick Wall & Movie work

This homework is to see how we can use broadcast to break a very hard problem up into much easier problems. This homework will also help you get more experience with ifs by modifying the programs from lab.

A brick wall!

The goal is to draw a brick wall that looks like this. You are free to change how the wall looks, but we recommend you get this working first.



□ To get started, write blocks to draw half of a brick, a block that draws a full brick and a block that uses pen up to make a space.



□ You may want to change your pen color and pen size using these pieces.



- ☐ The bottom row of the wall has all full bricks.
 - o Using a repeat, try to make "row1" that Creates this line of bricks



- □ We think that answering these questions might help you...
 - How many spaces are there in row1?
 - How many bricks are there in row 1?
 - How long is the entire row1 of bricks?

- The second row of bricks has a half-brick at the beginning and end.
 - \circ Use a repeat to try to make "row2" that Creates this line of bricks.

	repeat 10
when I receive row2▼	
	<u>-</u>

- □ We think that answering these questions might help you...
 - How many spaces are there in row2?
 - How many bricks are there in row 2?
 - o How many half-bricks are there in row2? _____
 - How long is the entire row2 of bricks?
- □ We think that answering these questions might help you...
 - We want row1 and row2 to be the same length. What can we use as the length for these:
 - Brick length _____
 - Half brick length _____
 - Space length _____

Rock Paper Scissors against the computer

- □ Modify the Rock Paper Scissors to take in input from the user. They should be able to type "Rock", "Paper" or "Scissors" to play.
 - Do something sensible if the user types in something other than "Rock", "Paper" or "Scissors"
- □ Keep score of the number of times each player has won.

Number guessing in reverse

- Make a project where the user gets to pick a random number and the computer has to guess it.
 - Have the computer ask the user to type in the maximum value.
 - Have the user type in "higher", "lower" or "correct" to respond to the computer's guesses.
 - Have the computer keep guessing a number until the user types in "correct".
 - Make the computer smart so that each guess cuts the number of possible numbers in half.