Gold Detection Robot
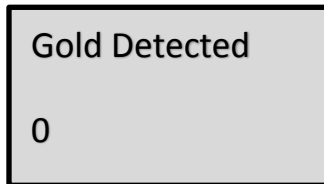
Use a variable called **gold** and initialize it to **0**.

Use a **loop** for **30 seconds**:

- Display on the screen:

> Gold Detected
>
> 0

- Have the robot move forward.
- Use a **Switch** to execute the following **MyBlocks** routines that you will write:
  - **Line Detected –** Use the black line as a fence to prevent the robot from leaving the board.
    1. Stop
    2. Make some sort of noise (try to find something that sounds like an error happened) and **do not wait** till the sound is completed before continuing.
    3. Back up 6 motor revolutions
    4. Turn right (try to get it rotate 45 degrees). Try rotating the robot by hand to see how many revolutions of the motor are needed to get the robot to rotate 45 degrees. Use the port view on the robot to help make adjustments.
  - **Gold Detected –** when the robot detects a gold sticker
    1. Stop
    2. Make some sort of noise (try to find something that sounds positive) and **do not wait** till the sound is completed before continuing.
    3. Add 1 to the value of the gold variable

You will need to have a blank default case to be used for the switch statement, when the robot is over something that is not black/gold.