

Human Sensor Storyboard

Program your Human Sensor Project

1. NAMING SECTION: Declare the variables for your components. Use descriptive names so you know what is what when you are writing the rest of your program:

```
int aluminumFoil= _____;
```

2. SETUP SECTION: In the setup() function, initialize the LEDs

```
void setup() {  
  pinMode(aluminumFoil, INPUT); //sets aluminum foil patch to INPUT  
  digitalWrite(aluminumFoil, HIGH); //initializes the sensor  
  
}
```

3. Experiment with your human sensor. Decide the sensor ranges and their corresponding behaviors. Write them below:

Sensor value greater than ____:

Sensor value greater than ____ and less than ____:

Sensor value greater than ____ and less than ____:

Sensor value greater than ____ and less than ____:

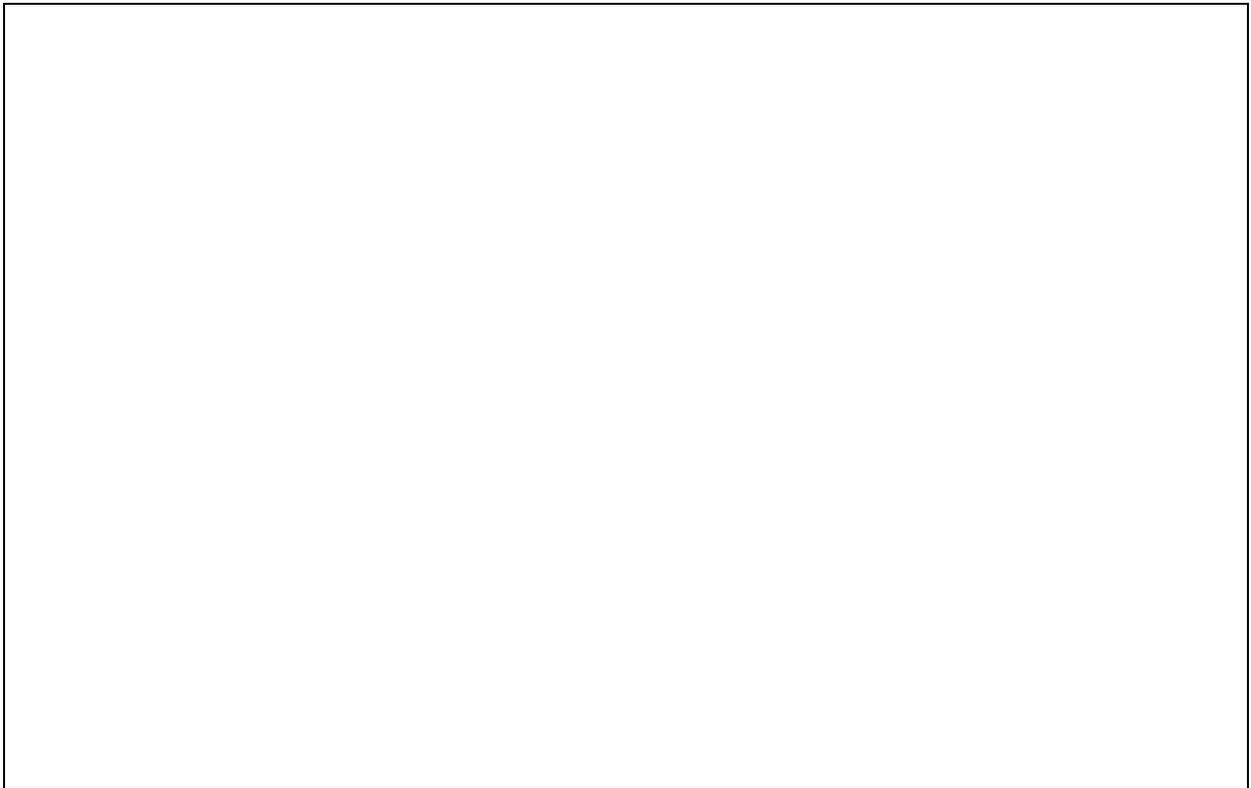
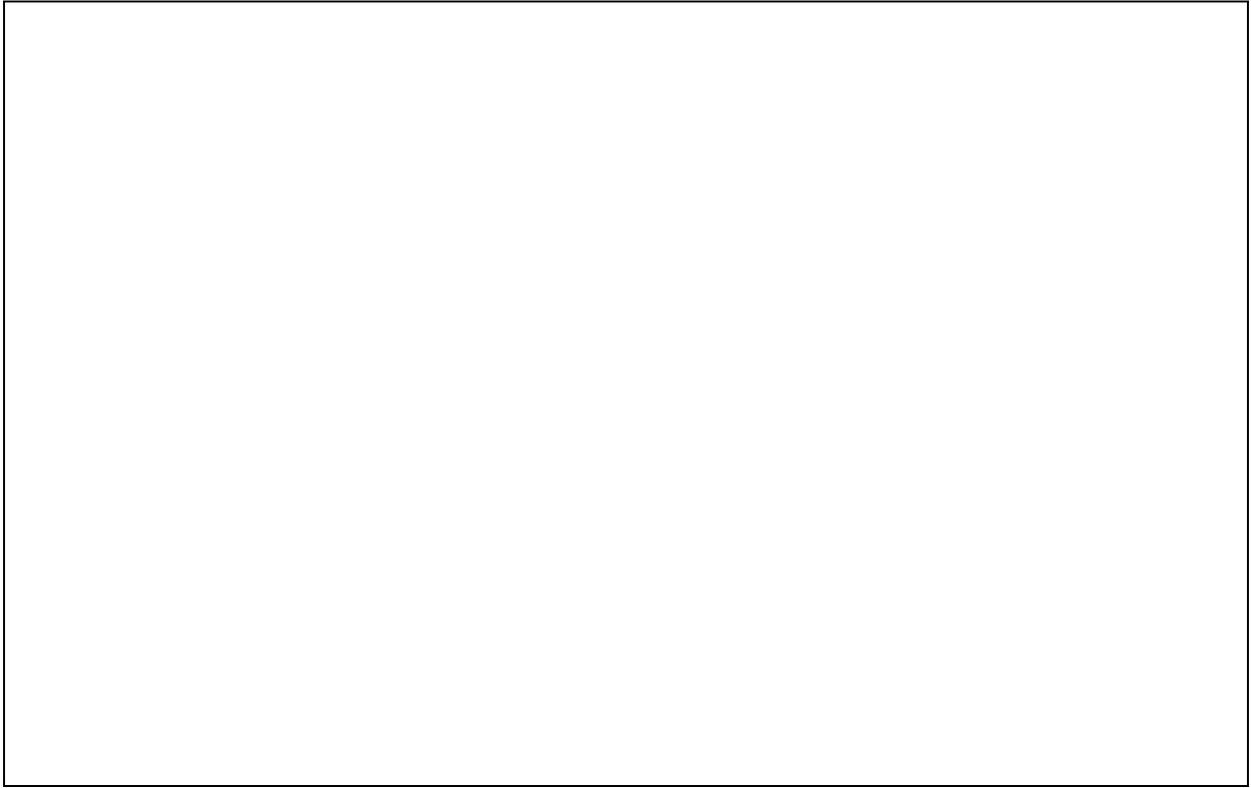
Sensor value less than ____:

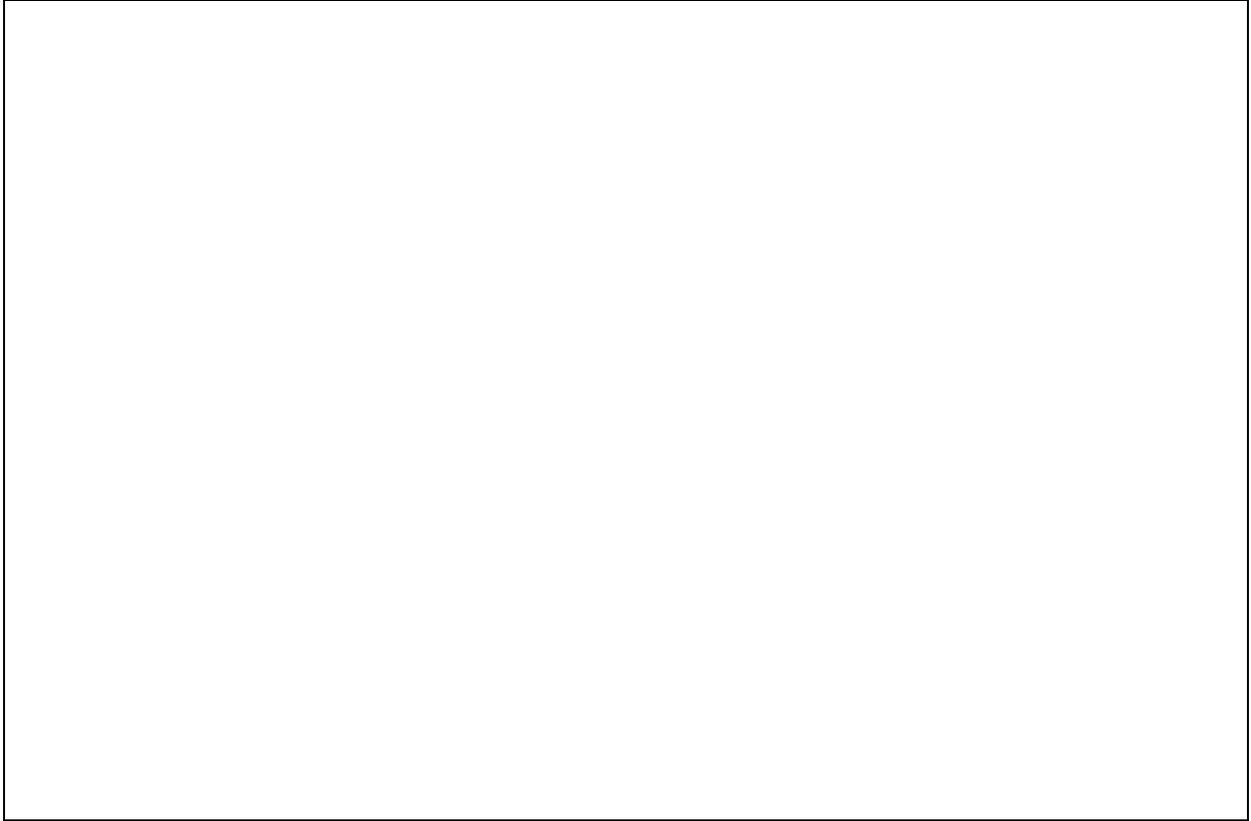
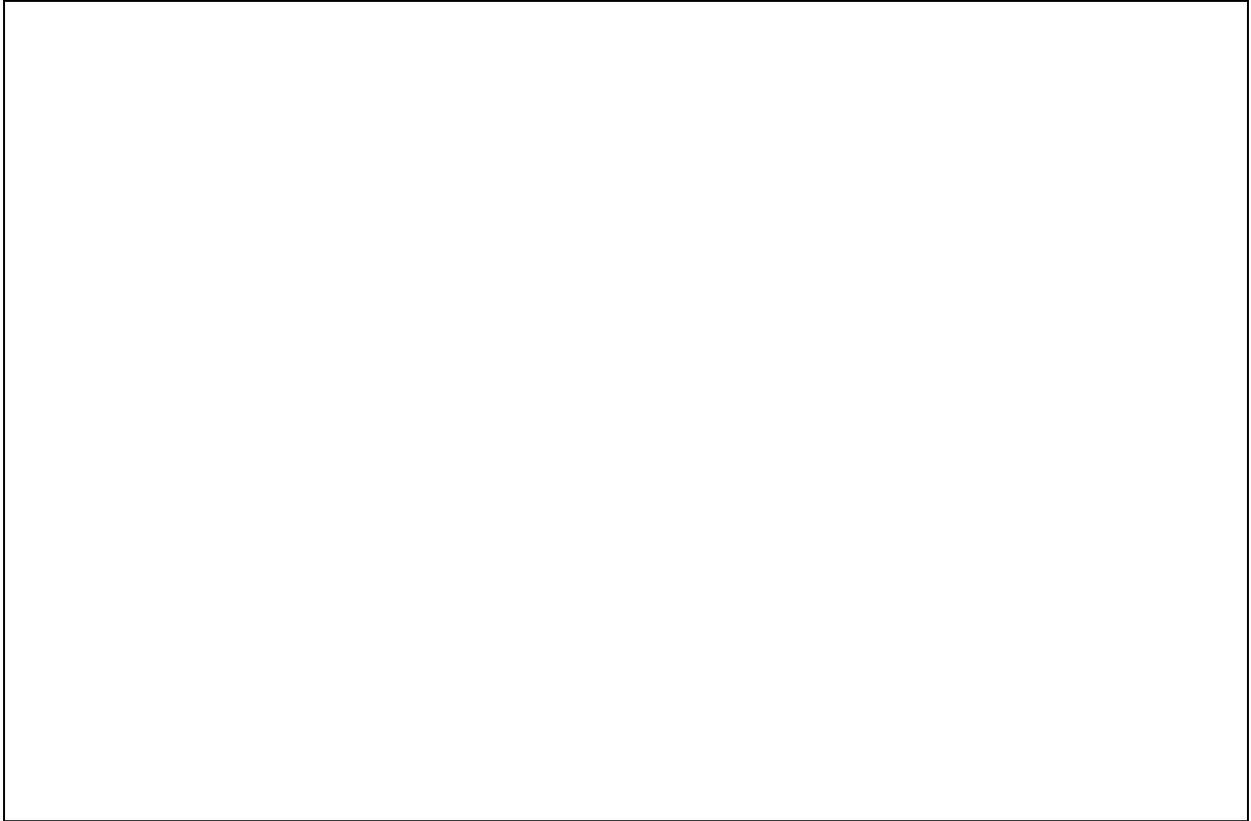
BUILDING BLOCKS SECTION:

4. Write the functions you would like to call as based on #3, one in each box:

```
void _____ () {
```

```
}
```





5. ACTIVITY SECTION: Complete the loop() function to call the functions from the BUILDING BLOCKS SECTIONS for the conditions you specified in #3.

```
void loop() {
  sensorValue = analogRead(aluminumFoil); // reads sensor
  Serial.println(sensorValue); //prints to the serial monitor
  delay(100); //delay for 1/10 of a second

  //your goes code below:

}
```

6. Copy your code into your program, test, and debug.

7. In your own words, describe how your program chooses which light pattern function to call in the loop() function: