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:

```c
void _____________________________() {

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

```cpp
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: