IMPLEMENTATION OF RESOURCEWELL DISPENSER

CODE: #include "HX711.h" #define LOADCELL DOUT PIN 2 #define LOADCELL SCK PIN 3 #define relay 9 HX711 scale; float calibration factor = 200000; //-71000, -311000 worked for my 440lb max scale setup //-751000 void setup() { Serial.begin(9600); pinMode(relay,OUTPUT); Serial.println("HX711 calibration sketch"); Serial.println("Remove all weight from scale"); Serial.println("After readings begin, place known weight on scale"); Serial.println("Press + or a to increase calibration factor"); Serial.println("Press - or z to decrease calibration factor");

```
scale.begin(LOADCELL DOUT PIN, LOADCELL SCK PIN);
 scale.set scale();
 scale.tare(); //Reset the scale to 0
 long zero_factor = scale.read_average(); //Get a baseline reading
 Serial.print("Zero factor: "); //This can be used to remove the need to
tare the scale. Useful in permanent scale projects.
 Serial.println(zero factor);
}
void loop() {
 scale.set scale(calibration factor); //Adjust to this calibration factor
 Serial.print("Reading: ");
 Serial.print(scale.get_units(), 3);
 float load=scale.get units();
 Serial.print(" lbs"); //Change this to kg and re-adjust the calibration
factor if you follow SI units like a sane person
// Serial.print(" calibration factor: ");
// Serial.print(calibration_factor);
 Serial.println();
 delay(1000);
```

```
if(load>0.50 && load<0.100)
{
 digitalWrite(relay,HIGH);
 delay(5000);
 digitalWrite(relay,LOW);
 }
else if(load>0.100 && load<0.200)
{
 digitalWrite(relay,HIGH);
 delay(10000);
 digitalWrite(relay,LOW);
 }
 else if(load>0.200 && load<0.400)
 {
 digitalWrite(relay,HIGH);
 delay(15000);
 digitalWrite(relay,LOW);
  else if(load>0.400 && load<0.600)
  {
 digitalWrite(relay,HIGH);
 delay(20000);
 digitalWrite(relay,LOW);
   }
```

```
else if(load>0.600)
  {
 digitalWrite(relay,HIGH);
 delay(25000);
 digitalWrite(relay,LOW);
   }
   else
   {
     digitalWrite(relay,LOW);
    }
 if(Serial.available())
 {
  char temp = Serial.read();
  if(temp == '+' || temp == 'a')
   calibration_factor += 10;
  else if(temp == '-' || temp == 'z')
   calibration_factor -= 10;
}
}
```