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void loop() {
digitalWrite(green_status, HIGH);
int green_state=1;
digitalWrite(yellow_status, LOW);
int yellow_state=0;
digitalWrite(red_status, LOW);
int red_state=0
bool flagA=True;
bool flagB=True;
bool breakFlag=False;

while(digitalRead(button_1)!=LOW && flagA)
{
    if(reset==1 and red_state==1)
    {
        flagA=True;
        FlagB=True;
        red_state=0;
        digitalWrite(red_status, LOW);
    }
    pot_1_state=analogRead(pot_1);
    load_cell_state=analogRead(load_cell);
    float target_weight= pot_1_state* ____ ;
    if(pot_1_state>0 && green_state==1 && load_cell_state>19 &&
    digitalRead(button_1)==LOW)
    {
        flagB=False; //turns off other while loop
        green_state=0;
        digitalWrite(green_status, LOW);
        yellow_state=1;
        digitalWrite(yellow_status, HIGH);
        for(i=0; i<10000; i++) //for loop for dispensing period
        {
            if(i==0)        //open valve to dispense item
            {
                digitalWrite(valve_1, HIGH);
            }
            if(load_cell==1.2*target_weight) //overflow detection

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        {
            digitalWrite(valve_1, LOW);
            red_state=1;
            digitalWrite(red_status, HIGH);
            yellow_state=0;
            digitalWrite(yellow_status, LOW);
            flagA=False;
        }
        elif(load_cell==0.95*target_weight) //shut off valve
        {
            digitalWrite(valve_1, LOW);
            green_state=1;
            digitalWrite(green_status, HIGH);
            yellow_state=0;
            digitalWrite(yellow_status, LOW);
            flagB=True;
        }
    }
}

while(digitalRead(button_2)!=LOW && flagB)
{
    if(reset==1 and red_state==1)
    {
        flagA=True;
        FlagB=True;
        red_state=0;
        digitalWrite(red_status, LOW);
    }
    load_cell_state=analogRead(load_cell);
    pot_2_state=analogRead(pot_2);
    float target_weight= pot_2_state* ____ ;
    if(pot_2_state >0 && green_state==1 && load_cell>19 &&
    digitalRead(button_2)==LOW):
    {
        flagA=False;
        green_state=0;
        digitalWrite(green_status, LOW);
    }
}

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yellow_state=1;
digitalWrite(yellow_status, HIGH);
for(i=0; i<10000; i++) //for loop for dispensing period
{
    if(i==0) //open valve to dispense item
    {
        digitalWrite(valve_2, HIGH);
    }
    if(load_cell==1.2*target_weight) //overflow detection
    {
        digitalWrite(valve_2, LOW);
        red_state=1;
        digitalWrite(red_status, HIGH);
        yellow_state=0;
        digitalWrite(yellow_status, LOW);
        flagB=False;
    }
    elif(load_cell_state==0.95*target_weight) //shut off valve
    {
        digitalWrite(valve_2, LOW);
        green_state=1;
        digitalWrite(green_status, HIGH);
        yellow_state=0;
        digitalWrite(yellow_status, LOW);
        flagB=True;
    }
}
}
}
}

```