Assignment -1

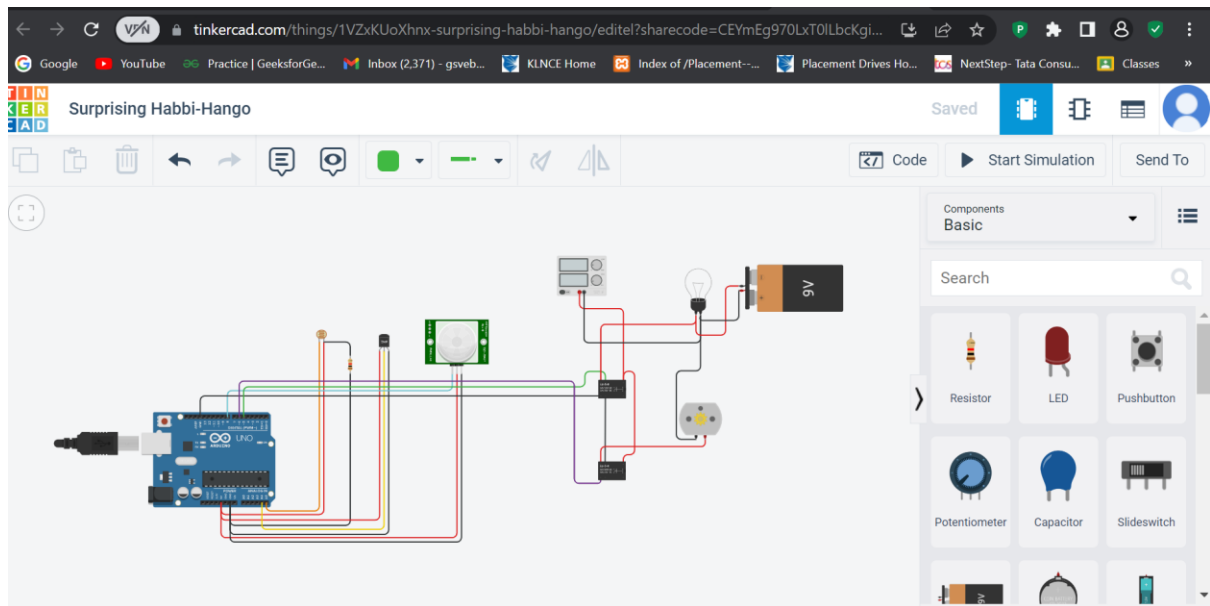| Assignment Date	19 September 2022
Student Name	Mrs.S.Santhya
Student Roll Number	910619104072
Maximum Marks	2 Marks

Question-1:

```
float x,y,z,temp;

void setup()

{

  pinMode(8, INPUT);

  pinMode(5, OUTPUT);

  pinMode(6, OUTPUT);

  pinMode(A5, INPUT);

  pinMode(A4, INPUT);

Serial.begin(9600);

}

void loop()

{

  x= digitalRead(8);

  y= analogRead(A5);

  z= analogRead(A4);

  Serial.println(x);

  Serial.println(y);

  Serial.println(z);

  temp = (double)z / 1024;

  temp = temp * 5;

  temp = temp - 0.5;

  temp = temp * 100;

  if ( (x>0) )

  {

    if ((y<550)&&(temp>30))
```

```
    {
      digitalWrite(5, HIGH);
      digitalWrite(6, HIGH);
    }
    else if((y<550)&&(temp<30))
    {
      digitalWrite(5, HIGH);
      digitalWrite(6, LOW);
    }
    else if((y>550)&&(temp>30))
    {
      digitalWrite(5, LOW);
      digitalWrite(6, HIGH);
    }
    else if((y>550)&&(temp<30))
    {
      digitalWrite(5, LOW);
      digitalWrite(6, LOW);
    }
  }
  else
  {
    digitalWrite(5, LOW);
    digitalWrite(6, LOW);
  }
}
```

Tinkercad Link:

https://www.tinkercad.com/things/1VZxKUoXhnx-surprising-habbi-hango/editel?sharecode=CEYmEg970LxT0lLbcKgiyLqUm3-ynD3Yj7BxrxPQNf0