

IBM ASSIGNMENT- I

TEAM ID :

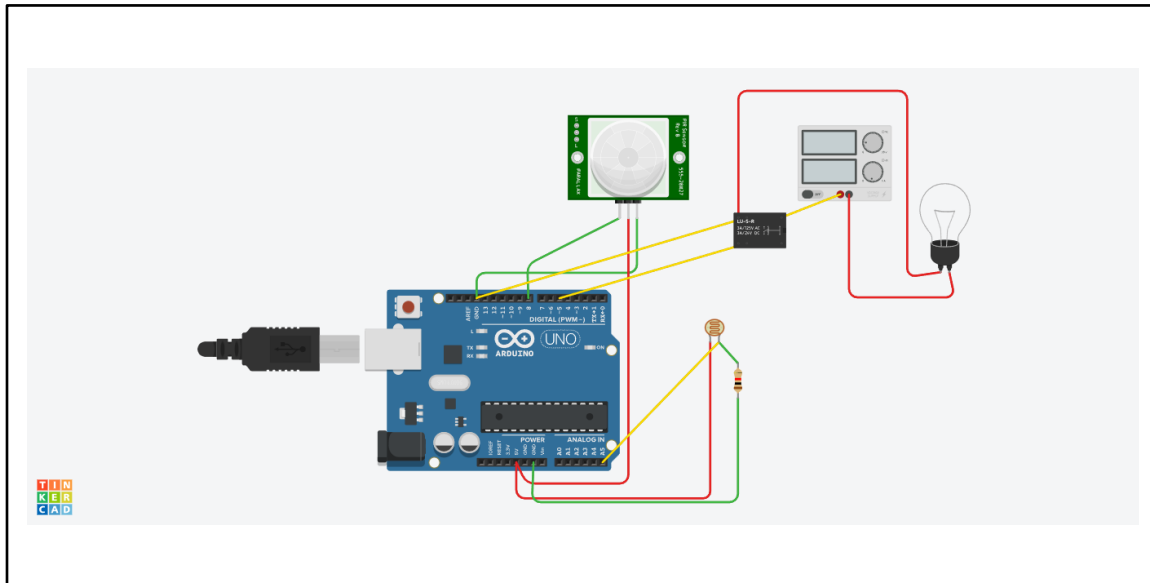
NAME : M.S.SWETHA

ROLL NO : 963019104008

Create a circuit with Piezo alarm, Resistor, Relay, Photoresistor, Bulb with below functionalities:

1.This project demonstrates application of automatic lighting human interaction is less.Two physical quantities are controlled which are human motion and intensity of light.

CIRCUIT LAYOUT:



CODE:

```
float x,y ;
void setup()
{
  pinMode(8,INPUT);
  pinMode(5,OUTPUT);
  pinMode(A5,INPUT);
  Serial.begin(9600);
}
void loop()
{
  x=digitalRead(8);
  y=analogRead(A5);
  Serial.println(x);
  Serial.println(y);
  if ( (x>0) && (y<550))
  {
    digitalWrite(5,HIGH);
    delay(40000);
  }
  else
  {
    digitalWrite(5,LOW);
  }
}
```

OUTPUT:

