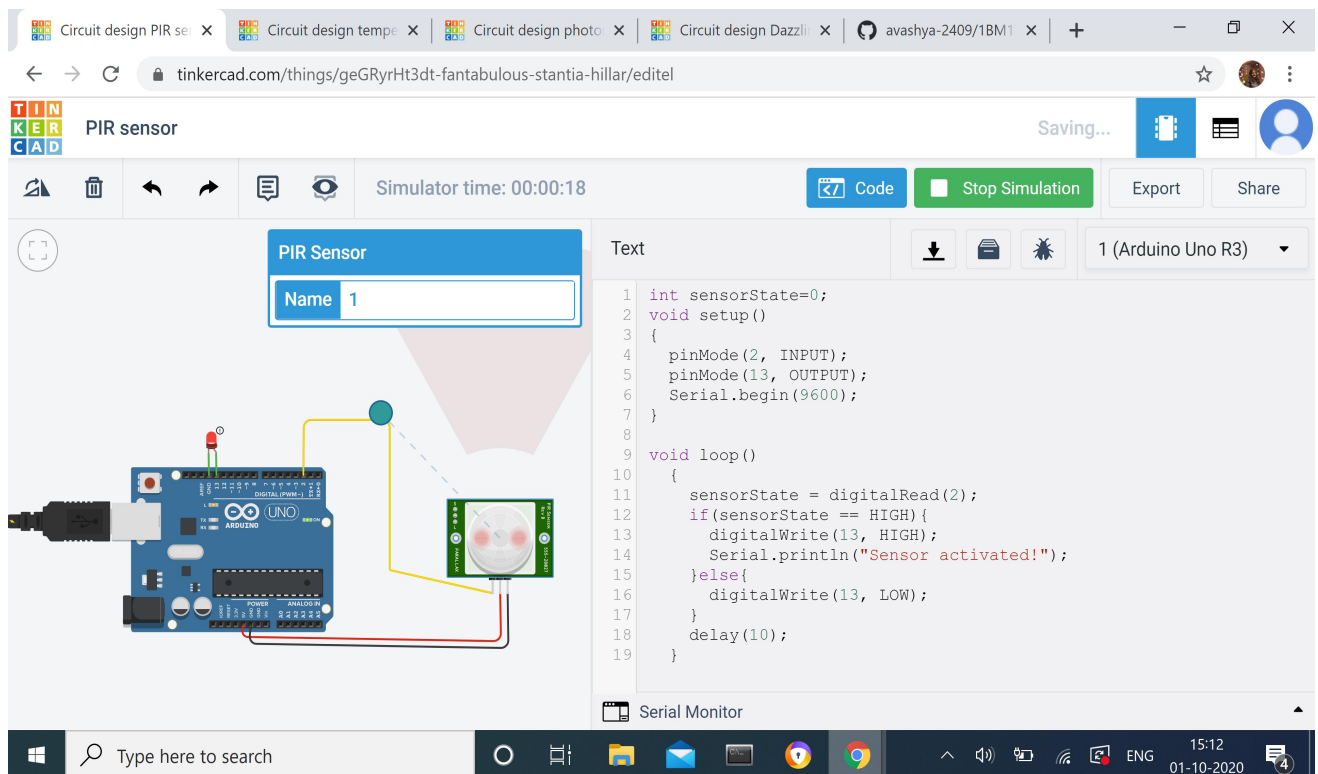# Program no_____6_____

Program Title_____PIR_____

Aim :The lights turns on if there is any motion in the range

Hardware Required:

- Arduino Board
  LED
  PIR sensor
  Resistor

Circuit Diagram:


```
1  int sensorState=0;
2  void setup()
3  {
4    pinMode(2, INPUT);
5    pinMode(13, OUTPUT);
6    Serial.begin(9600);
7  }
8
9  void loop()
10   {
11     sensorState = digitalRead(2);
12     if(sensorState == HIGH){
13       digitalWrite(13, HIGH);
14       Serial.println("Sensor activated!");
15     }else{
16       digitalWrite(13, LOW);
17     }
18     delay(10);
19   }
```

Code:

```
Name: K. Avashya
USN : 1BM17CS034
Experiment 6 → PIR

int sensorState = 0;
void Setup()
{
  pinMode (2, INPUT);
  pinMode (13, OUTPUT);
  Serial.begin (9600);
}

void loop
{
  sensorState = digitalRead (2);
  if (sensorState == HIGH) {
    digitalWrite (13, HIGH);
    Serial.println (" Sensor activated!");
  } else {
    digitalWrite (13, LOW);
  }
  delay (10);
}
```

Observation /Output:

The lights turns on if there is any motion in the range