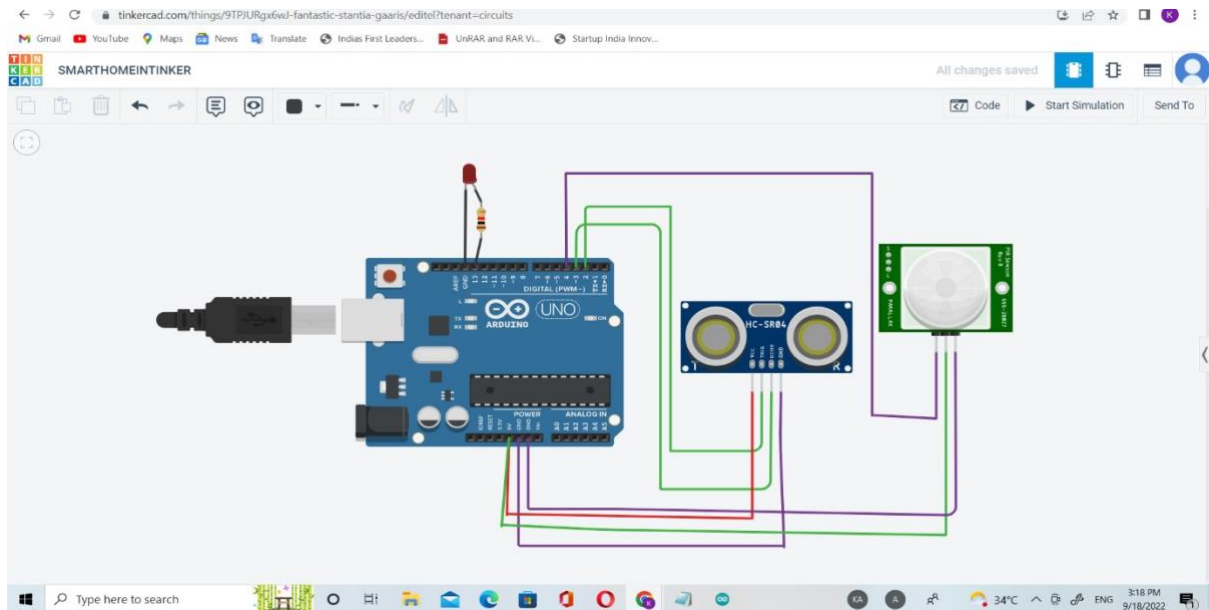


Assignment -1

TOPIC : SMART HOME

Assignment Date	7 OCTOBER 2022
Student Name	Monikaa R
Student Roll Number	411719205028
Maximum Marks	2 Marks



TINKER CAD

CODE:

```
int trigger_pin=2;
int echo_pin=3;
int time; int
distance; void
setup()
{
  Serial.begin(9600);
  pinMode(trigger_pin,OUTPUT);
```

```

pinMode(echo_pin,INPUT);
pinMode(4,INPUT);  pinMode(13,OUTPUT);
} void
loop()
{
    digitalWrite(trigger_pin,HIGH);
    delayMicroseconds(10);
    digitalWrite(trigger_pin,LOW);
    time=pulseIn(echo_pin,HIGH);
    distance=(time*0.034)/2;  if(distance<=10)
    {
        Serial.println("Door open");
        Serial.print("Distance=");
        Serial.println(distance);    delay(500);
    }
    else{
        Serial.println("Door closed");
        Serial.print("Distance=");
        Serial.println(distance);
        delay(500);    int
        p=digitalRead(4);
        if(p)
        {
            digital
            Write(1

```

3,HIGH

);

Serial.p

rintln("

motion

detecte

d");

}

else

{

digitalWrite(13,LOW);

Serial.println("not detected");

}

}

}