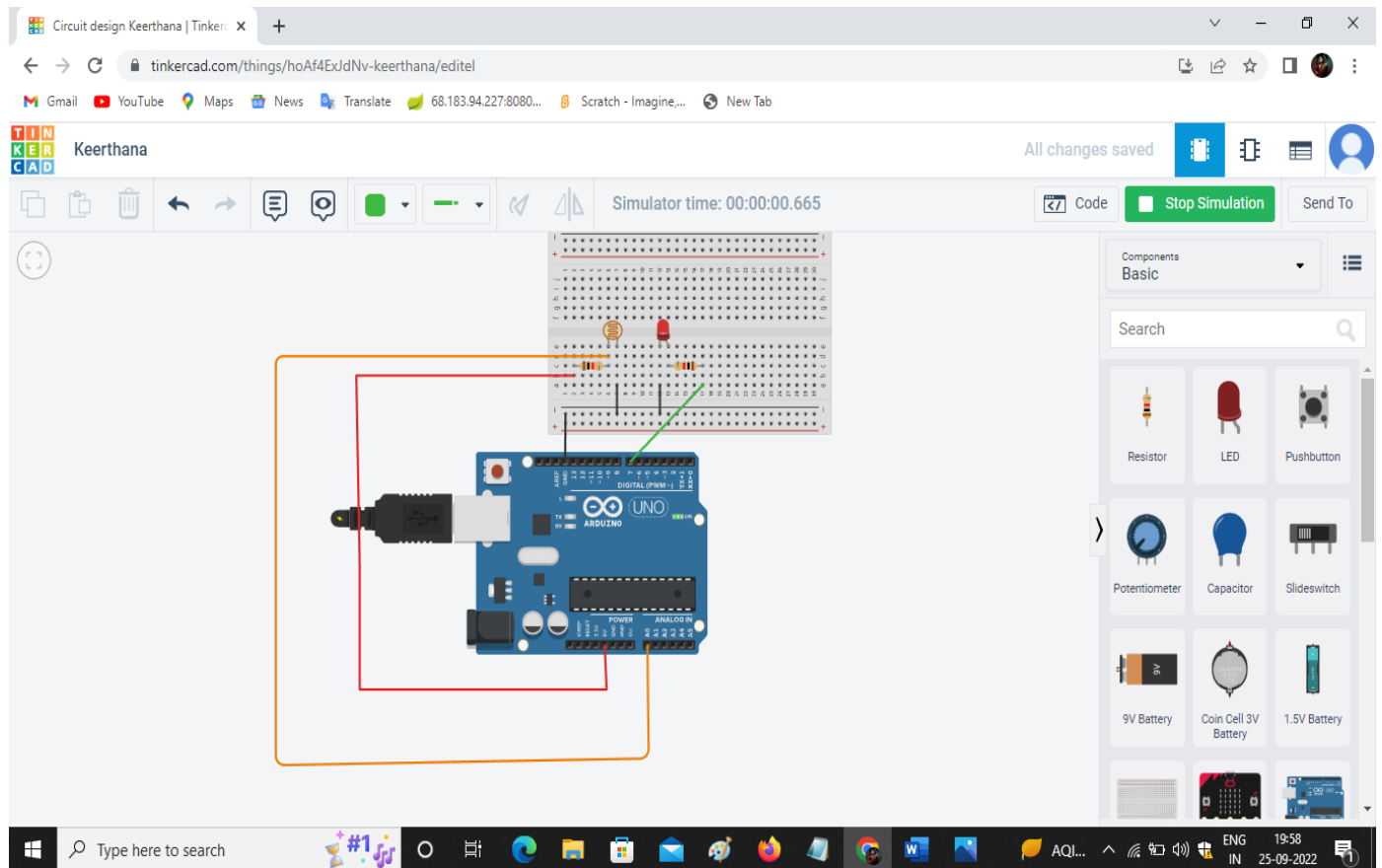# ASSIGNMENT 1

AUTOMATIC NIGHT LAMP BEGINNER

Components:

- 1 x Mini Breadboard
- 1 x Arduino UNO R3
- 1 x LDR Photoresistor Sensor
- 2 x 1 kΩ resistors
- 1 x Red LED

Circuit Diagram:

This circuit will be used for automatic night Lamp Turn ON/Turn OFF. When there is no sunlight then lamp (LED) glows and When there is sunlight then lamp (LED) does not glow.

Program:

```
void setup()
{
Serial.begin(9600);
pinMode(7,OUTPUT);

void loop()
{
 int c = analogRead(A0) ;
 Serial.println(c) ;
 if(c<500)
 {
   digitalWrite(7,LOW) ;
 }
 else
 {
   digitalWrite(7,HIGH) ;
 }
}
```