IOT LAB

Program no - 6

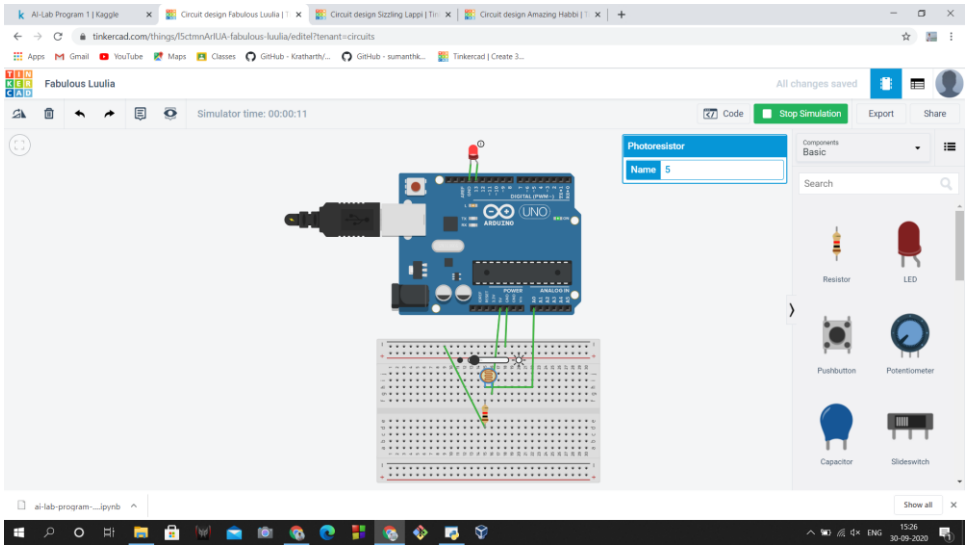
Program Title – LIGHT DEPENDENT RESISTOR

AIM – Demonstrate the working of LED using LDR

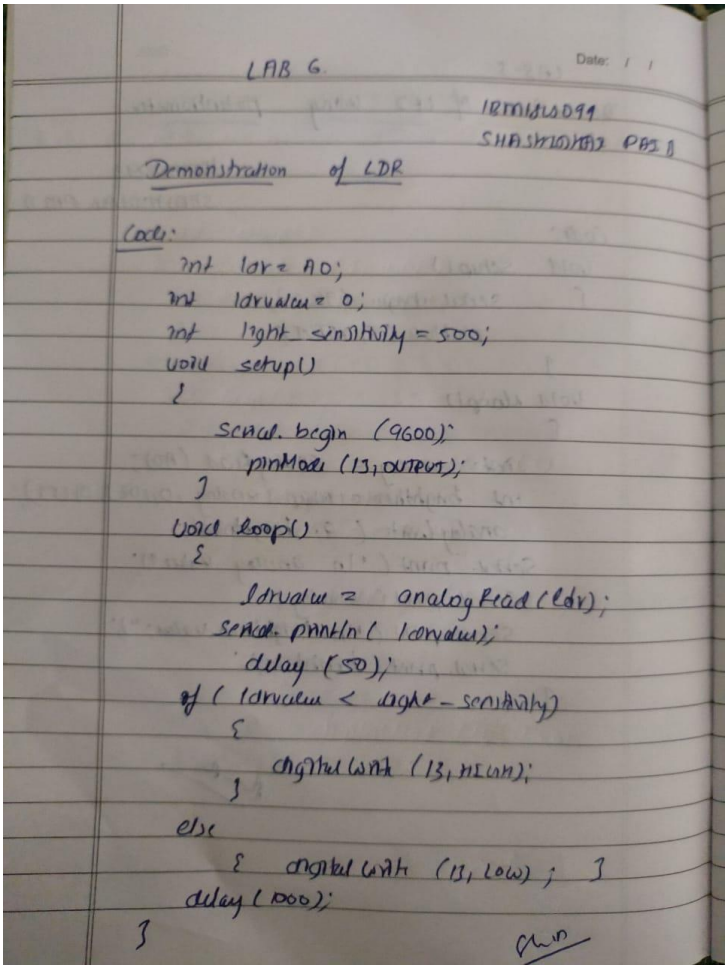
Hardware Required -

- Arduino Board
- LED
- Breadboard
- Wires
- LDR
- Resistor

Circuit Diagram -



Code-



LAB 6

Date: / /

Demonstration of LDR

```
Code:
int ldr = A0;
int ldrvalue = 0;
int light_sensitivity = 500;
void setup()
{
  Serial.begin (9600);
  pinMode (13, OUTPUT);
}
void loop()
{
  ldrvalue = analogRead (ldr);
  Serial.println (ldrvalue);
  delay (50);
if ( ldrvalue < light - sensitivity)
  {
    digitalWrite (13, HIGH);
  }
else
  { digitalWrite (13, LOW); }
delay (500);
}
```

Observation /Output -

The working ldr and led intensity is observed.