

30-09-2020

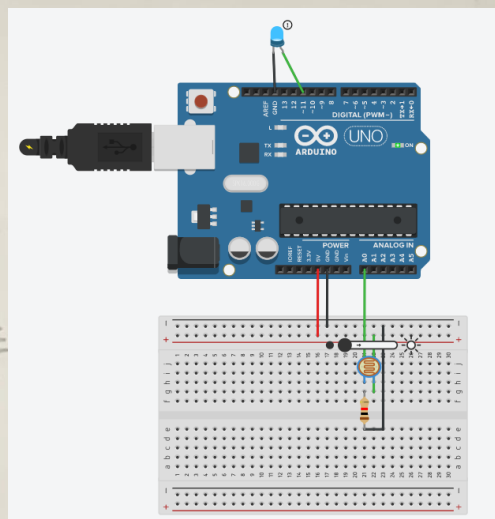
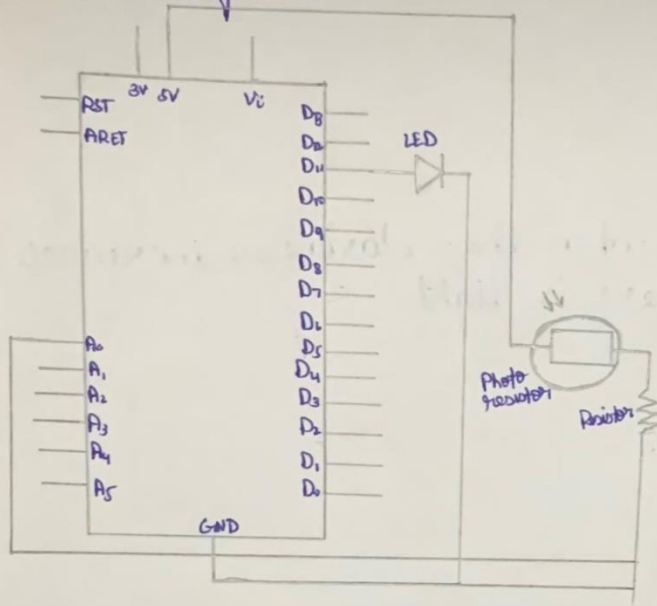
PROGRAM-7

Title: LDR Nightlight Simulation.

Aim: To turn on the LED light when it is dark.

Hardware Required: Arduino Board, Photoresistor, Resistor, LED, wire.

Circuit Diagram:



Code:

```
int ldr = A0;
int ldrvalue = 0;
int light-sensitivity = 500;
void setup()
{
  Serial.begin(9600);
  pinMode(11, OUTPUT);
}
void loop()
{
  ldrvalue = analogRead(ldr);
  Serial.print(ldrvalue);
  delay(50);
}
```

```

if (ldrvalue < light_sensitivity)
{
    digitalWrite(LL, HIGH);
}
else
{
    digitalWrite(LL, LOW);
}
delay(1000);
}

```

Observation / Conclusion:

The LED light gets on when the darkness increases and gets off when there is light.