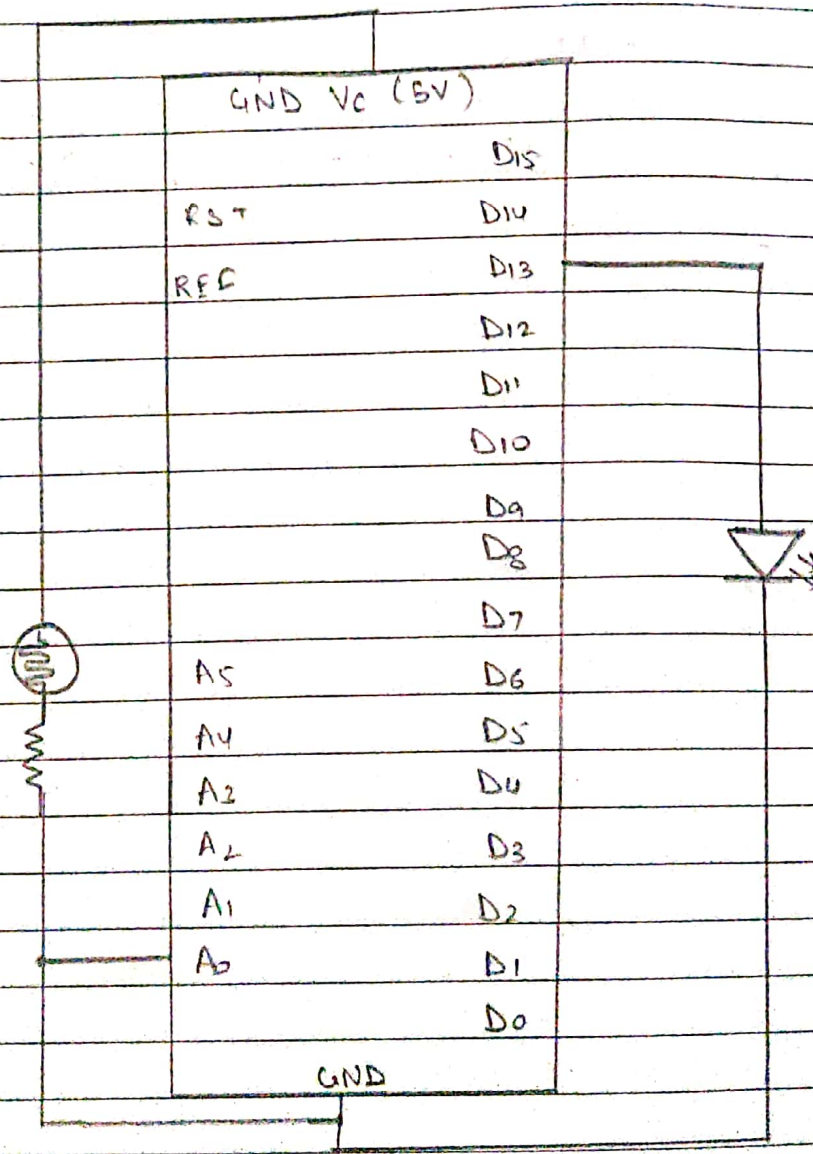


PROGRAM NO: 6
PROGRAM TITLE: ON/OFF of LED using LDR

AIM: Demonstrate to show ON/OFF of a LED using LDR - Night light simulation.

HARDWARE REQUIREMENTS: Arduino Board, LED, Breadboard, Resistor, Connecting wires, Photoresistor

CIRCUIT DIAGRAM:



CODE :

```
const int ledPin = 8;  
const int ldrPin = A0;  
void setup()
```

```
{
```

```
  Serial.begin(9600);
```

```
  pinMode(ledPin, OUTPUT);
```

```
  pinMode(ldrPin, INPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
  int ldrStatus = analogRead(ldrPin);
```

```
  Serial.println(ldrStatus);
```

```
  if (ldrStatus <= 10)
```

```
  {
```

```
    digitalWrite(ledPin, HIGH);
```

```
    Serial.println("DR is DARK,  
LED DR is ON");
```

```
  }
```

```
  else
```

```
  {
```

```
    digitalWrite(ledPin, LOW);
```

```
    Serial.println("-----");
```

```
  }
```

```
}
```