**AIM : LDR interface – automatic night lamp.**

**APPRATUS :** LDR, breadboard, wires, arduino, LED, resistors.

**CIRCUIT DIAGRAM** **:**

**THEORY** : An LDR is a component that has a (variable) resistance that changes with the light intensity that falls upon it. This allows them to be used in light sensing circuits.

**LERNING & OBSERVATION :**

1. Use of LDR and its functioning.
2. The resistance of LDR decreases with the increasing incident light intensity.
3. Always in circuit ground should always have least resistance.
4. Coding of LDR and its library function.

**PROBLEM & TROUBLESHOOTING:**

1. Mistake in coding in if else statement.
2. Logical mistake happened in connection.

**LEARNING OUTCOMES**:

1. Use of ground and resistance in circuit.
2. How to connect LDR in circuit.
3. Resistance must be of 10 kilo ohm not less than that.
4. To work on both analog and digital pins.