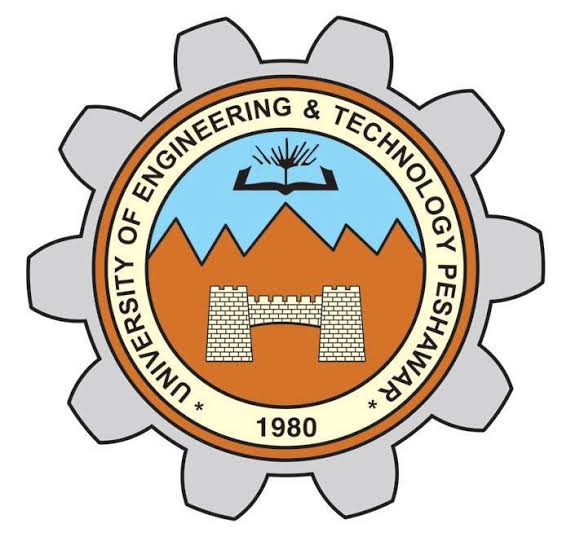
***Music Rhythm LED flash Light***

**Project proposal**



**Section: B**

**Engineering Work Shop**

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**Introduction**:

We must have seen the dancing LEDs in DJ LIGHT, which is on and off based on music beats. These lights blink according to volume and length of music beats. Basically these are intended to choose the light-intensity sound such as bass sound. So these lights go after the pitch beats in turn like drum beats and turn on and off based on music pattern.

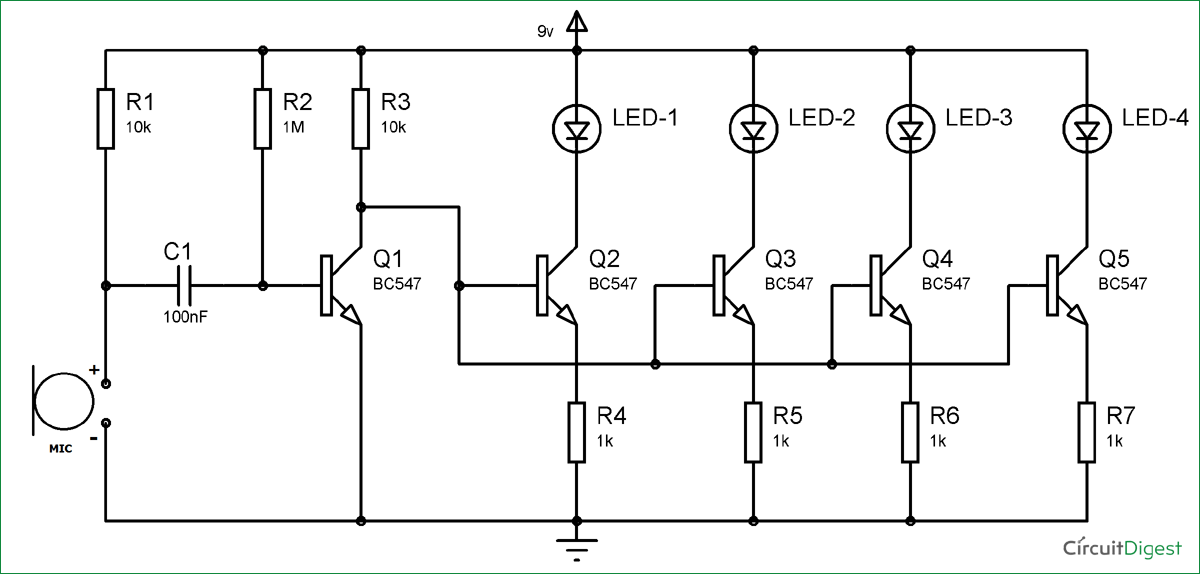
**REQURIED COMPONENTS:**

* Condenser Mic
* 5- NPN Transistor BC547
* Resistors- 10k (2), 1k (4), 1M (1)
* Ceramic Capacitor 100nF
* 4 – LEDs
* 9v Battery
* Breadboard
* connecting wires

**CONSTRUCTION:**

* Connect all transistors on breedboard according to circuit diagram, each having three terminals C, B AND E.
* Connect all LEDs according to circuit diagram.
* Similarly connect the resisters of 22ohm from emitters to ground.
* Short the bases of all transistors and connect to collector of main transistor.
* Connect the collector off main transistor to 10kohm one terminal and other terminal of resister to 9v.
* Connect the emitter of main transistor to ground.
* Connect 100nF capacitor to the base of emitter and other terminal to 10kohm and second terminal of 10kohm c0nnect to 9v.
* Also connect 1 mohm to the base of main transistor and other terminal to 9v.
* Finally connect the main component like electret microphone to capacitor and other terminal to ground
* Connect power supply.

**Circuit Diagram:**

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