



TECHNICAL PROJECT REPORT

TITLE OF INVENTION / PROJECT:

MULTI COLOURED NIGHT LAMP

TEAM MEMBERS / INVENTORS:

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Section – 1 (IPR Related)

BRIEF ABSTRACT:-

Firstly it is a decorative item which we using as a project which help society very much but it can help an individual who is afraid of darkness while sleeping. As a decorative item this is beautiful when it changes colour with time. This help the person individually who has the problem of uncomfotability with light while sleeping by changing colour which help a little bit light over that place without disturbing other person in surrounding . **Night light soft lighting, dark environment at home, play the role of guidance lighting, avoid the middle of the night can not see anything to get up and accidents, but also to avoid the middle of the night to open the eye suffered intense stimulation lighting people, especially very useful for the elderly and children, so people sleep after a night light will remain illuminated.**

It can also be upgraded by adding a rotating motor to this which help the outer structure to rotate and also the change in colour pattern.

- Rotating outer structure of night lamp
- More changes in colour pattern

ADVANTAGES

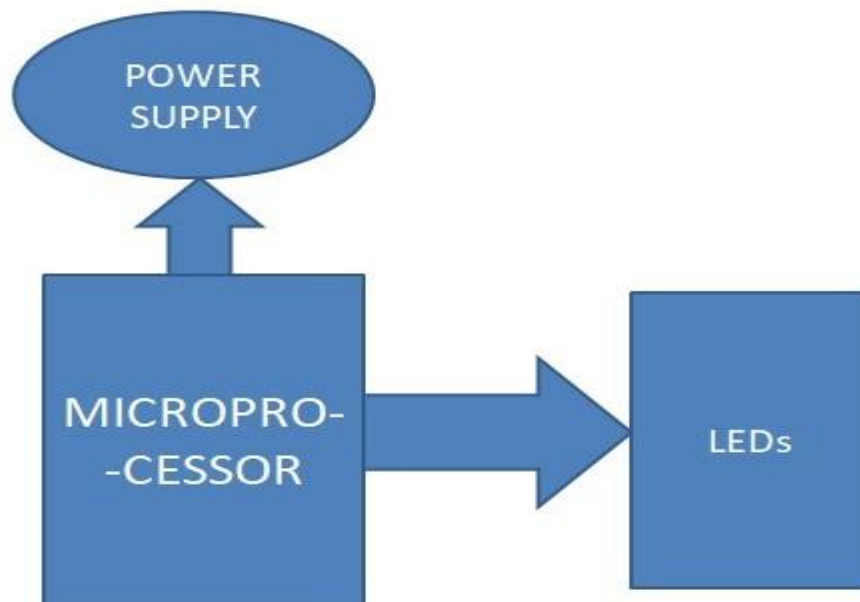
- Decorative.
- Saves power as it consume less power.



EXISTING STATE-OF-THE-ART AND DRAWBACKS IN EXISTING STATE-OF-THE-ART

S. N o.	Existing state of art	Drawbacks in existing state of art
1	Colorful controlled night light, wherein: a lamp body, the lamp body is provided with a color LED circuit and a LED lamp set, timer switch and a control chip module, said timing circuit switch module and LED are electrically connected to the control chip , operation key provided on the lamp body.	https://patents.google.com/patent/CN105240796A/en?q=multicoloured&q=night&q=lamp&oq=multicoloured+night+lamp
2	The present model is designed not to spend the night lights, whose structure is: an electrical control board is placed at the bottom of the vase.	https://patents.google.com/patent/CN2046584U/en?q=multicoloured&q=night&q=lamp&oq=multicoloured+night+lamp

BLOCK DIAGRAM



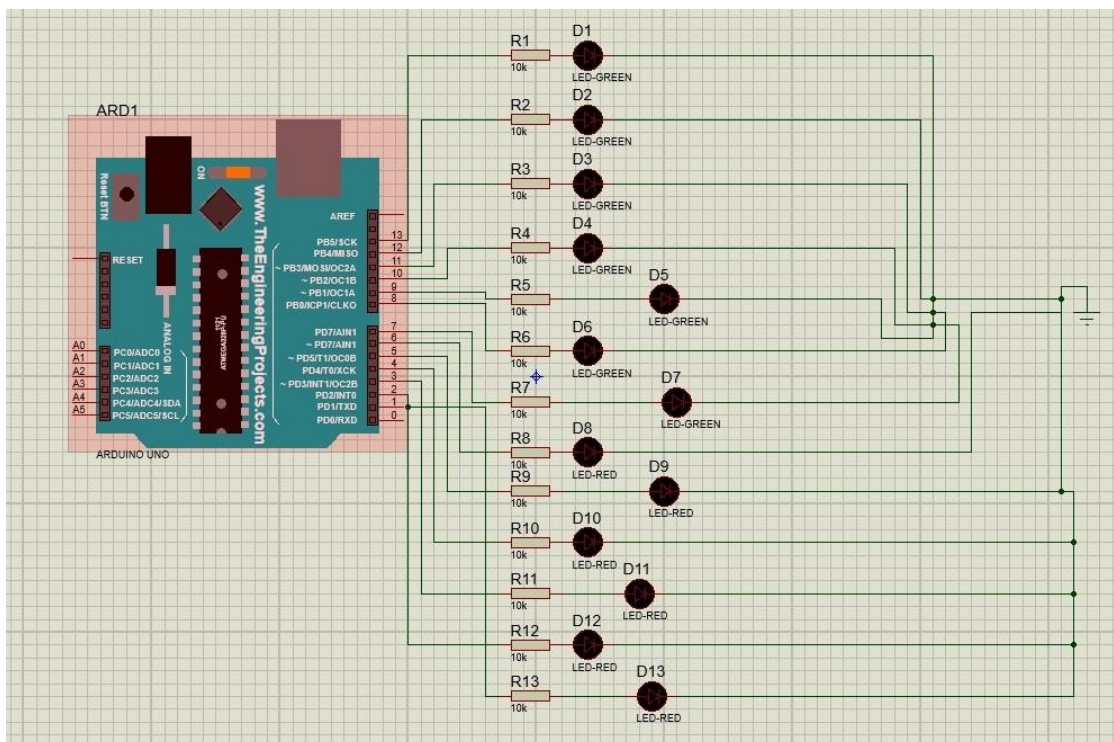
Section – 2 (Real Project)



MATERIALS

SR. NO	ITEMS	QUANTITY	COST
1.	ARDUINO UNO	1	Rs 450
2.	RESISTANCE(220)	13	Rs 40
3.	LEDs(GREEN)	7	Rs 7
4.	LEDs(RED)	6	Rs 6
5.	JUMPING WIRE	15	Rs 40
6.	AC TO DC ADAPTER	1	RS 150

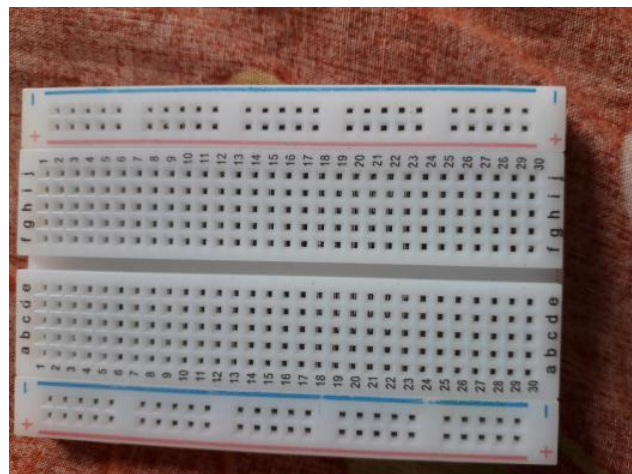
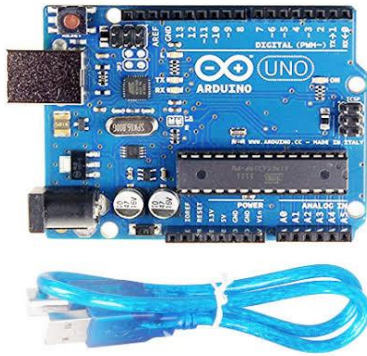
CIRCUIT DIAGRAM



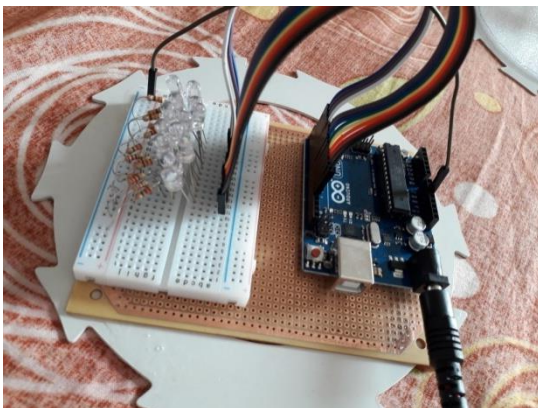


STEPS OF CIRCUIT COMPLETION

1:- ASSEMBLING THE CIRCUIT.

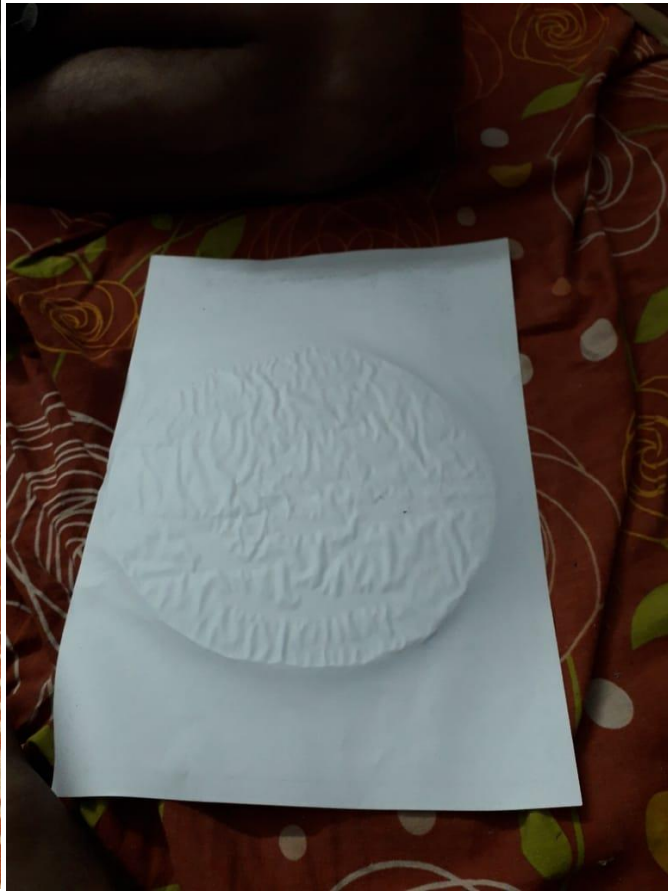
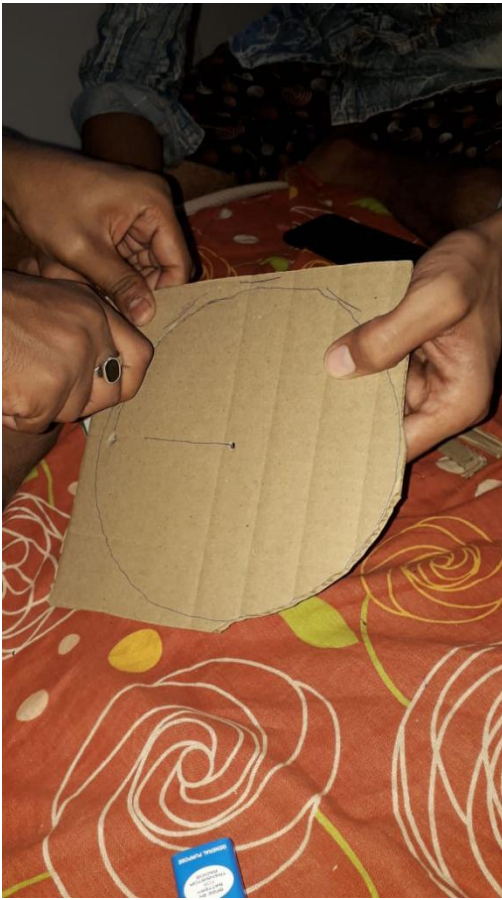


2:- CIRCUIT





3:- MAKING OF STRUCTURE.





4:- MAKING OF STRUCTURE.



5:- COMLETION OF STRUCTURE.





6:- FULLY PREPARED LAMP.



PROGRAM CODE

https://github.com/AbhishekAbhay/multicolour-lamp/blob/master/program/BEEE_PROJECT_no2.ino