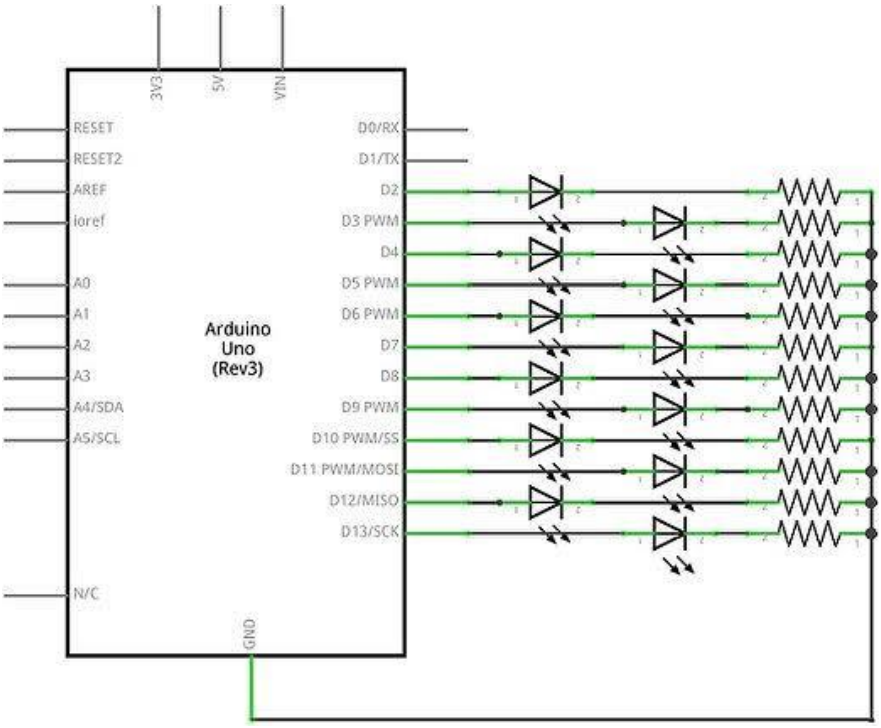
CIRCUIT DIAGRAM:



THEORY:

LED chaser is set of LEDs which are turned on and off in a symmetrical manner. To develop this type of LED chaser we generally using Arduino b to board to create this we have to understand the concept of providing input in the form of code. We just need to provide a suitable input in the form of a suitable code and led will switch ON and OFF own its own. We have to define output pins in our program and then at last we have to use that output pins to switch ON and OFF led and then attach it with a bread board for connection.

LEARNING AND OBSERVATION

1. First thing I observed is that our LED chaser is totally dependent on the code we write. We can alter the switching ON and switching OFF of LED by changing in our code.
2. Ground pin is always attached to the negative part of LED which is usually small in length.
3. Output pins are connected to positive terminal of the LED and positive terminal of a LED is usually a longer length.
4. We have 13 output pins and we are free to use anyone.

PROBLEMS AND TROUBLESHOOTING

1. First a biggest problem I faced is connection of wiring `in breadboard. One should be careful while adjusting pins in breadboard. Use only those pins which you have written in code for output.

2. I also wrote the code in such a manner that switching ON and OFF of LED's become unsymmetrical. This was the another problem I faced. At that time, syntax of code was correct but LED's were switching ON and OFF in unsymmetrical manner.

PRECAUTION

1. Do not connect ground pin to positive of the LED.
2. Always connect positive terminal of battery with output pins.
3. Be careful while doing connections in breadboard.
4. Write code carefully so that it syntax do not contain error.
5. Your code must be written in a manner as per requirement of the output.

LEARNING OUTCOME

After doing this, now I am able to make a LED chaser by using an Arduino board. Now, I am able to give input to the system and I can also alter the switching ON and switching OFF of LED by changing the code.

Now, I have skills to change flashing of LED on my own rule by changing in code.