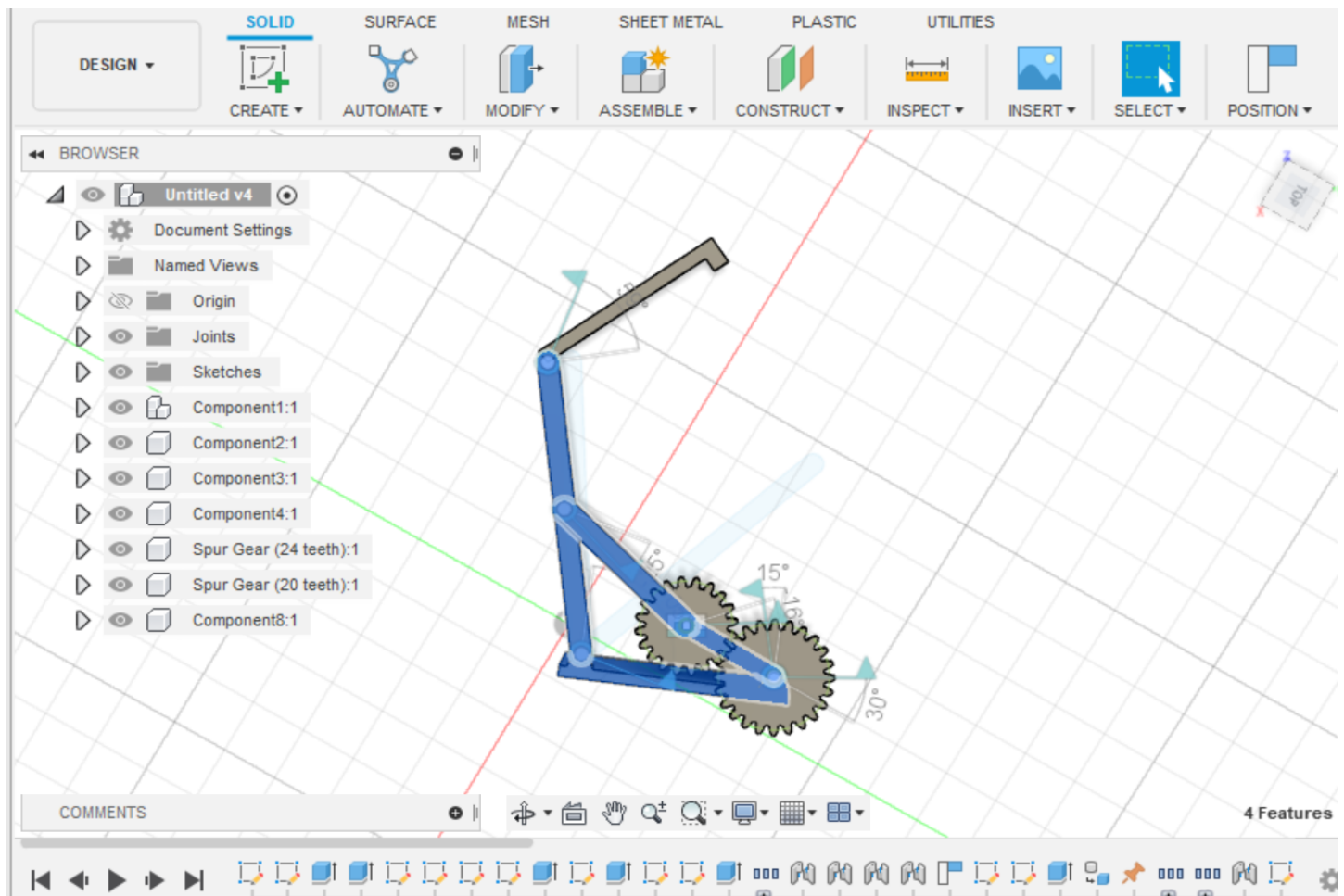# MECHATRONICS LABORATORY

Assignment-3(555 Timer circuit)

NAME- *SOUMYADEEP PARDHAN*
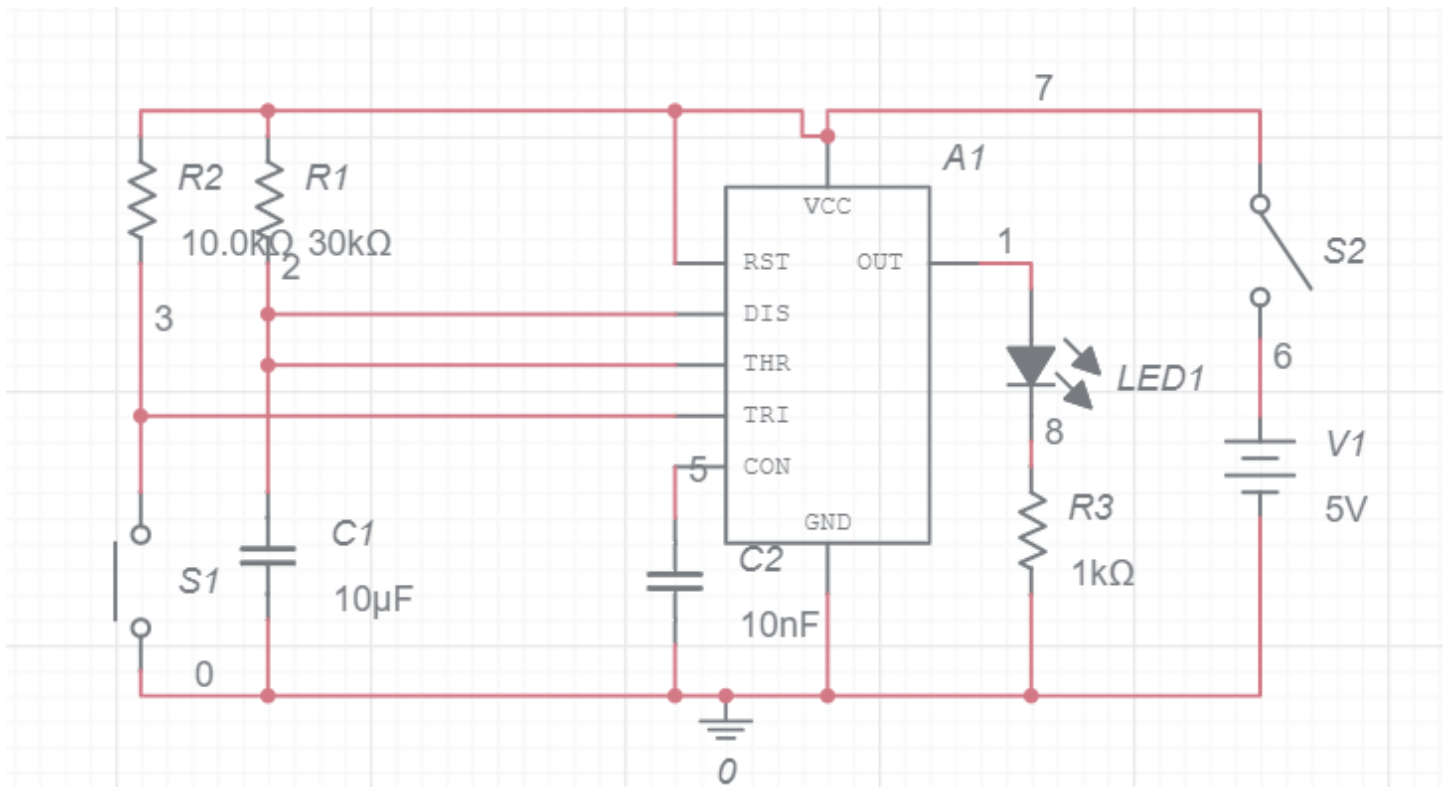**ROLL NO.-** *21ME10080*

CAD DIAGRAM :

PROCEDURE :

a)I first connected four bars in the four mechanism manner for a money saver toy. I joined a "L"-shaped bar that we could attach a toy dog to.

b) I used the "Multisim" programme to simulate circuits because there was no motor in the software, so I used an LED light in its place.Our goal is for our dog to enter the box in 1.5 seconds. In order to fulfill this requirement, I chose R1 and C1 such that 5RC=1.5s.

For this reason, I used R1=30k ohm and C1=10uF.

CIRCUIT DIAGRAM :

WORKING :

The motor's spindle will first be connected to a larger gear to create a rotation.Our four bar mechanism will move thanks to a larger gear, which will be rigidly linked to a smaller gear that will do so in a revolutionary way.

The link between the "L" shaped bar and the big bar will be ensured by a spring, preventing the coin from losing its connection with the "L" shaped bar.