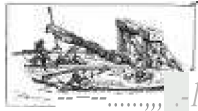


Name- Pulkit Arora

Roll no. 102103267

Group- 2CO10



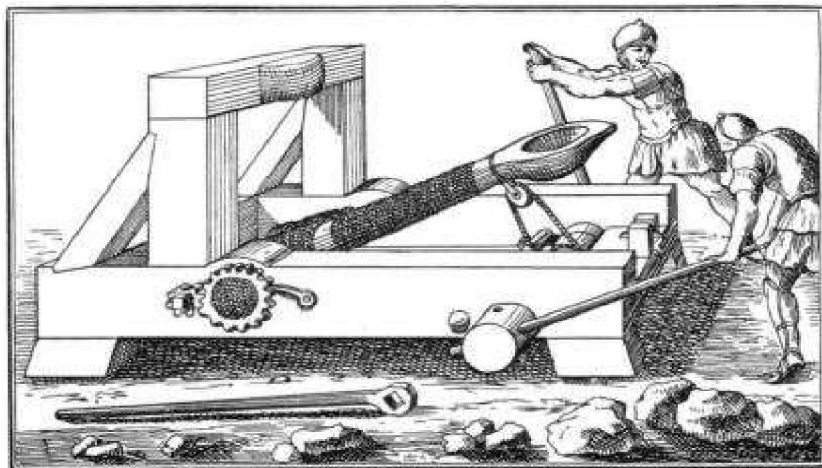
**DEPARTMENT
OF
ELECTRONICS AND COMMUNICATION ENGINEERING**



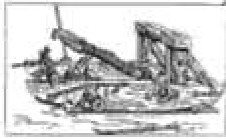
PAR INSTITUTE

OF ENGINEERING & TECHNOLOGY
affiliated to University of Technology

**Handout/Assignment-1
for
Engineering Design Project-I (UTA013)**



INSTRUCTOR INCHARGE



Name – Pulkit Arora

Roll no.- 102103267

Group- 2CO10

Exercise 1 (C) – Tinkercad

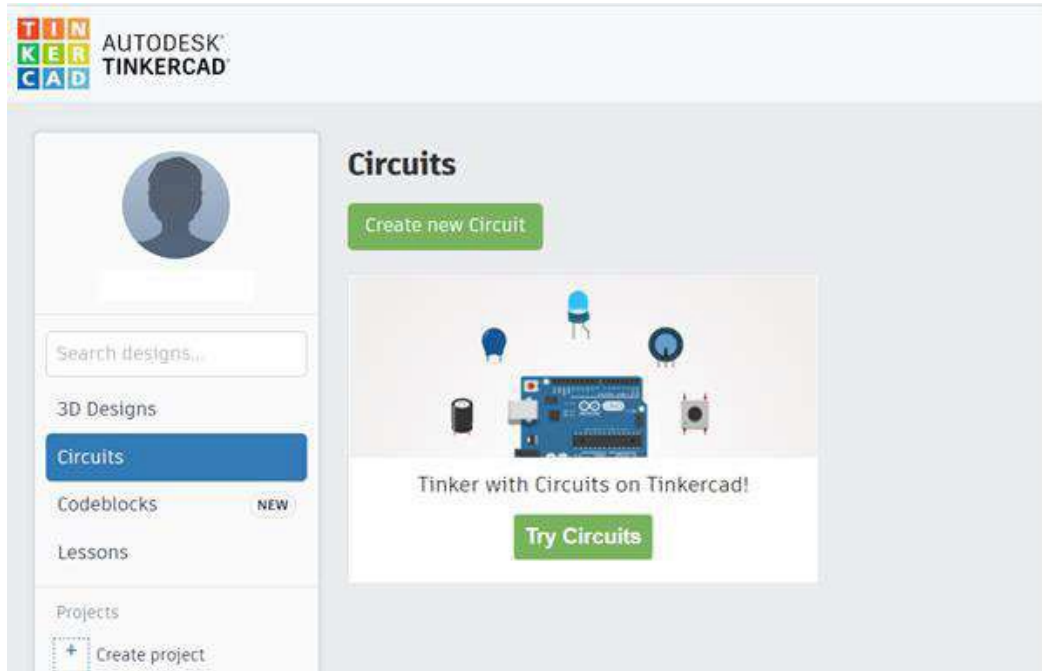
Tinkercad is a free, online collection of software tools for 3D design, electronics, and coding

Software Required

- Tinkercad Software tool (<https://www.tinkercad.com/>)

Getting Started:

1. Visit <https://www.tinkercad.com/>
2. Sign in through your google account (Thapar Email ID only)
3. On the Dashboard, select **Circuits** from the drop box and click on **Create new Circuit**



Name- Pulkit Arora

Roll no.- 102013267

Group- 2CO10

Assignment Tasks:

Note: Each student must attach separate sheets for submitting the below mentioned Assignment Task A-C.

- A. Using Tinkercad, hook up 5 LEDs to pins 2 through 6 (with resistors). Modify the code to turn on each one in order and then extinguish them in order.

(HINT: hook them up one additional LED at a time and make sure the new one works before you add the next one.)

Code:

Group-2C010

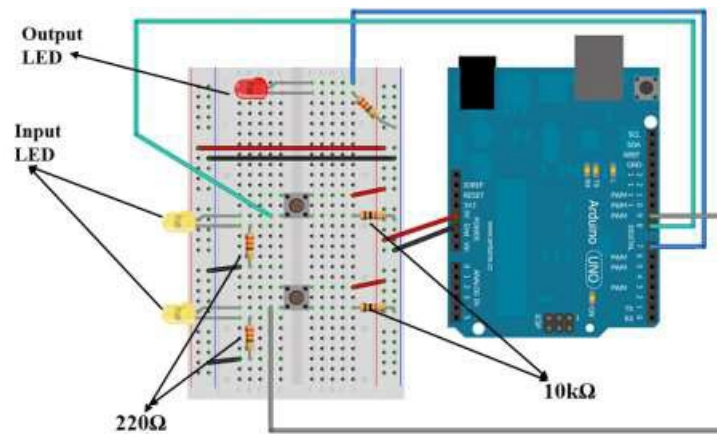
Name- Pulkit Arora

Roll No. 102013267

Group- 2CO10

- B. With the help of Tinkercad, use push buttons to simulate the behaviour of listed logic gates (Without using ICs of logic gates)
- a) Logic gates: AND, NAND, XOR for students with odd numbered Roll Number.

Hint:



Group- 2C010

Tinker this

Name- Pulkit Arora

Roll no.- 102103267

Group-2C010

CODE:

(i) AND Gate

(ii) NAND Gate

Name- Pulkit Arora

Roll no. 102103267

Group-2CO10

(iii) XOR Gate