Experiment-1.3

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Subject Name: IOT LAB   **Subject Code: 20CSP-358**

1. Aim:

Demonstration of Autodesk Tinkercad Simulation Platform

2. Requirements:

1. A laptop/desktop with internet connectivity

3. Theory:

Introduction to Tinkercad: Tinkercad is a free, online 3D design and modeling tool that allows users to create and share digital designs. It is a simple and user-friendly platform that is ideal for beginners, educators, and hobbyists who want to learn about 3D modeling and design.

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It also supports a variety of file formats, including STL, OBJ, and X3D, and allows users to export their designs for 3D printing, laser cutting, or other manufacturing processes. The platform also includes a library of pre-designed objects and shapes that users can incorporate into their designs.

Hardware: Arduino Uno R3, LED and wires
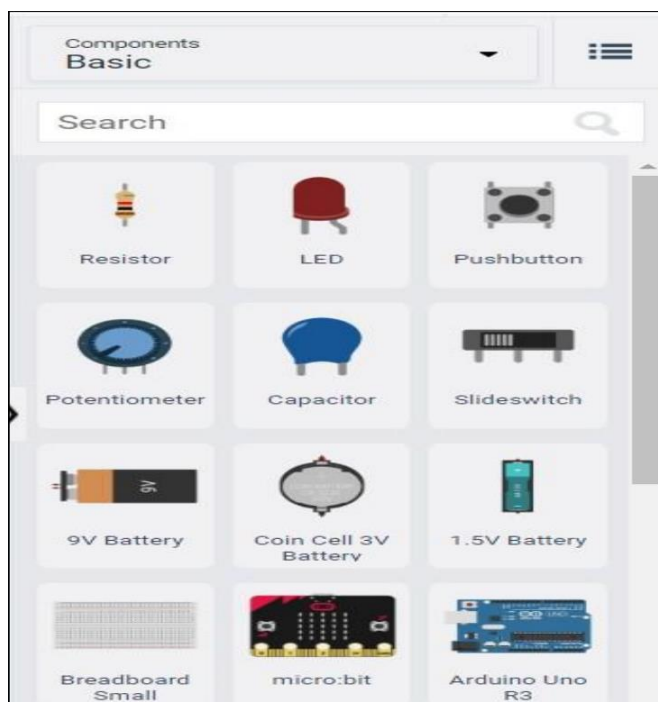
Code:

```cpp
//C++ code
void setup()
{
  pinMode(LED_BUILTIN,OUTPUT);
}
void loop()
{
 digitalWrite(LED_BUILTIN, HIGH);
 delay(1000); //wait for 1000 milliseconds(s)
 digitalWrite(LED_BUILTIN, LOW);
 delay(1000); //wait for 1000 milliseconds(s)
}
```

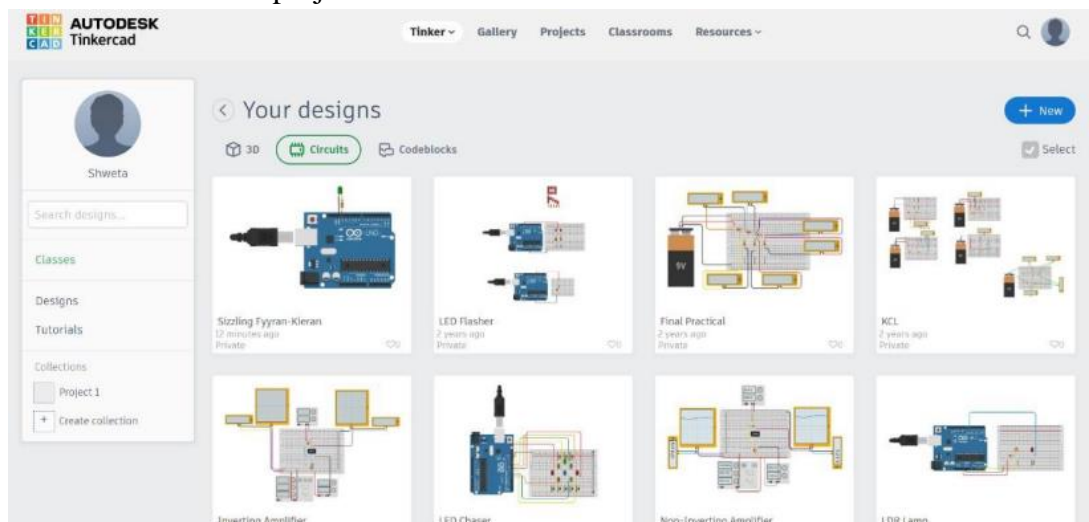## Steps for Experiment

1. Create an account/ Login to tinkercad

2. Create a new circuit project
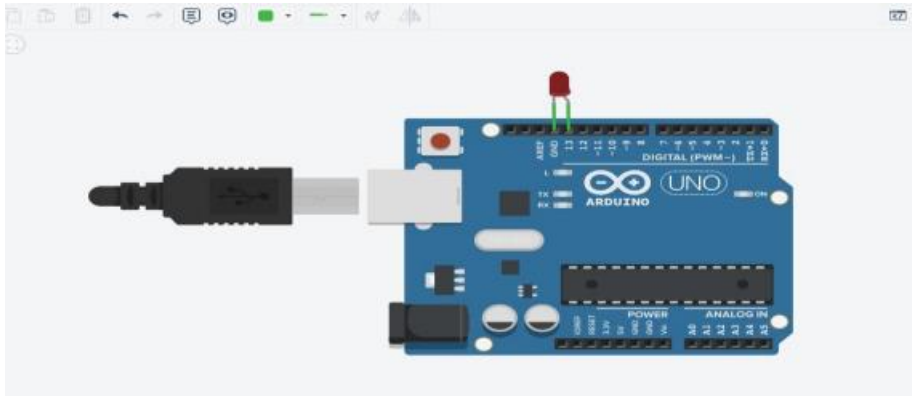
3. Go to Sidebar containing different components and select Adruino Uno R3, LED, and wires.
4. Connect the LED from the Andruino pin 13 by one end and from the ground pin by the other with the help of wires.

5. Now program the Arduino and write the code in it.