

## Assignment -1

### SMART HOME IN TINKERCAD

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|---------------------|---------------------|
| Assignment Date     | 19 September 2022   |
| Student Name        | K.ANNAPOORANESHWARI |
| Student Roll Number | 815119106301        |
| Maximum Marks       | 2 Marks             |

#### Question-1:

Build a smart home in tinkercad Use atleast Solution: 2 sensors, led, buzzer in a circuit. Simulate in a single code.

#### Solution:

The screenshot shows the Tinkercad workspace titled "Smart home with PIR sensor, LED and BUZZER". The workspace contains an Arduino Uno R3 board connected to a PIR sensor, an LED, and a buzzer. The code in the text editor is as follows:

```
1 // C++ code
2 //
3 void setup()
4 {
5   pinMode(LED_BUILTIN, OUTPUT);
6 }
7
8 void loop()
9 {
10  digitalWrite(LED_BUILTIN, HIGH);
11  delay(1000); // Wait for 1000 millisecond(s)
12  digitalWrite(LED_BUILTIN, LOW);
13  delay(1000); // Wait for 1000 millisecond(s)
14 }
```

**Code:**

```
// C++ code
//
void setup()
{
  pinMode(LED_BUILTIN, OUTPUT);
}

void loop()
{
  digitalWrite(LED_BUILTIN, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(LED_BUILTIN, LOW);
  delay(1000); // Wait for 1000 millisecond(s)
}
```