

## Program no 00

### Program Title: LED-BLINK

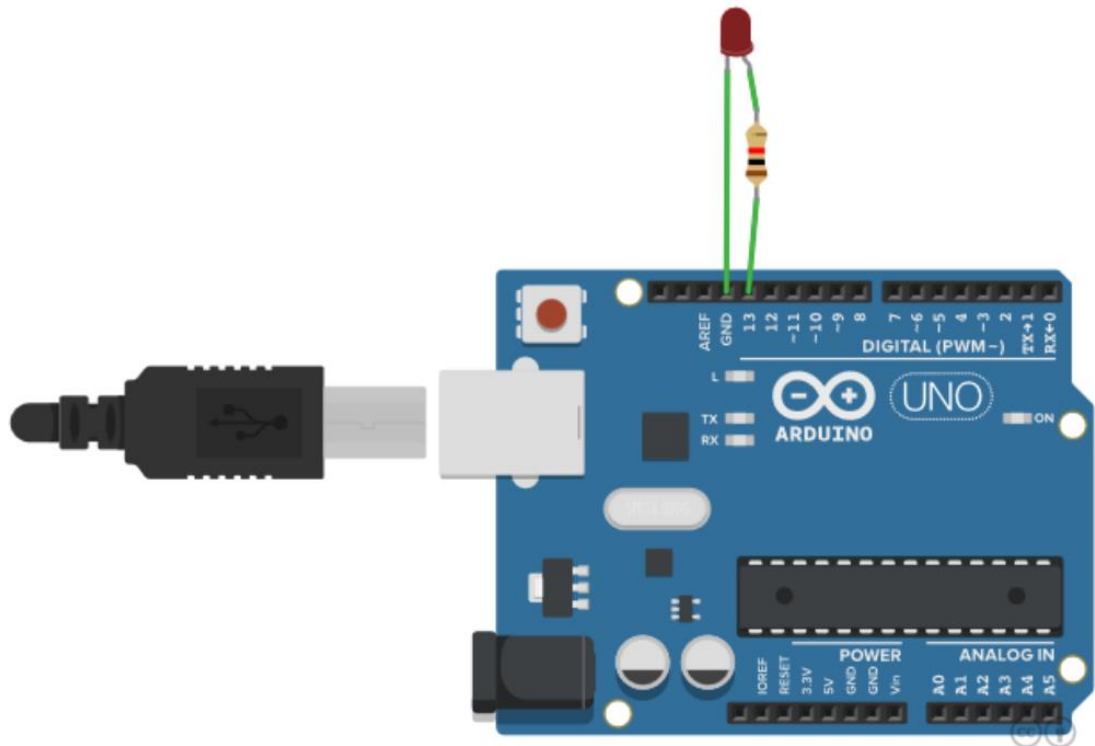
#### Aim

To demonstrate blinking of Led after delays

#### Hardware Required

- Arduino Board
- Led Light
- 1 ohm resistor

#### Circuit Diagram



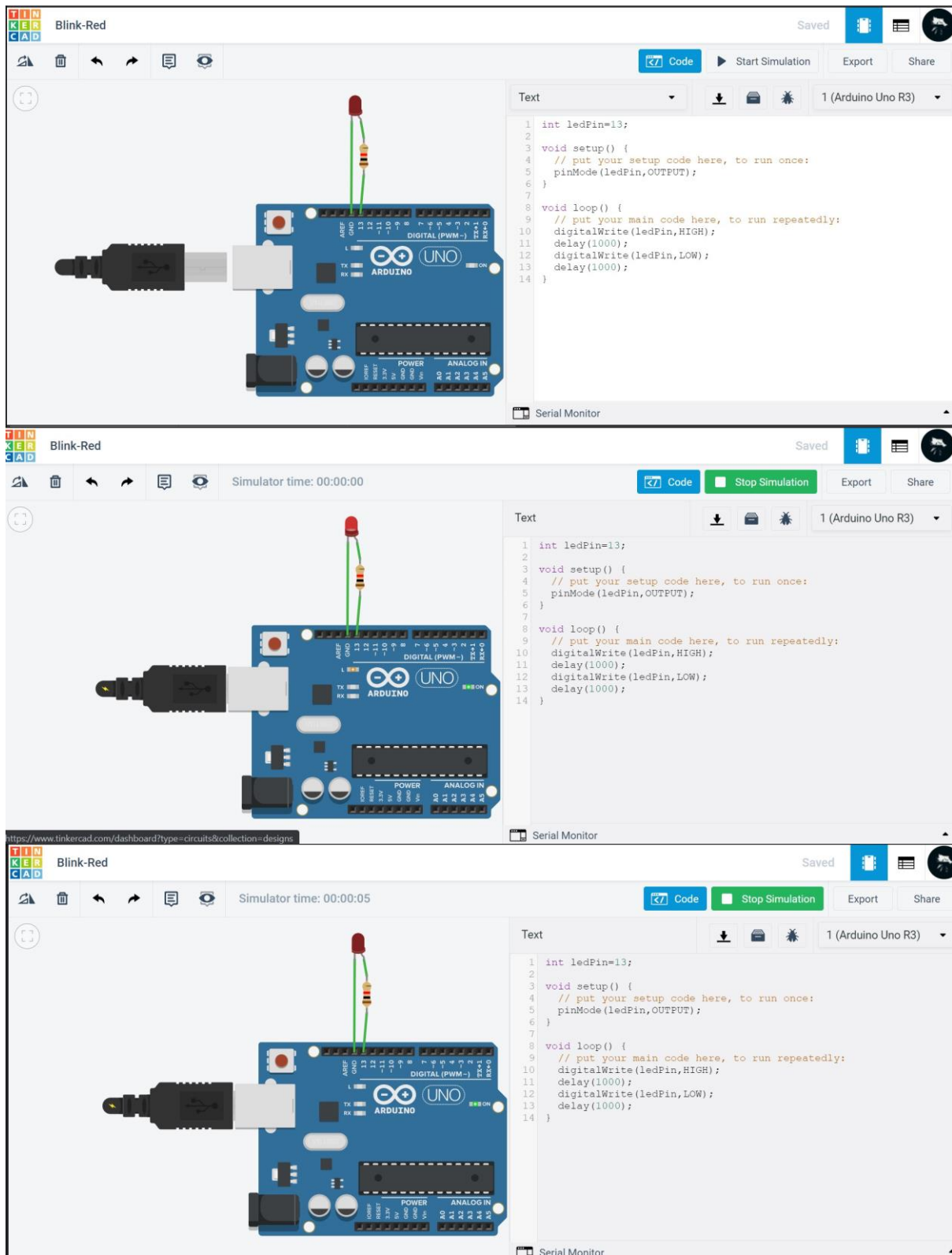
#### Code:

```
int ledPin=13;
```

```
void setup() {  
  // put your setup code here, to run once:  
  pinMode(ledPin,OUTPUT);  
}
```

```
void loop() {  
  // put your main code here, to run repeatedly:  
  digitalWrite(ledPin,HIGH);  
  delay(1000);  
  digitalWrite(ledPin,LOW);  
  delay(1000);  
}
```

# Observation /Output:



The image displays three sequential screenshots of the Tinkercad web interface, illustrating the simulation of an Arduino Uno R3 board with a red LED connected to digital pin 13. The LED is connected to ground via a 220Ω resistor. The code in the background is a standard Arduino Blink sketch.

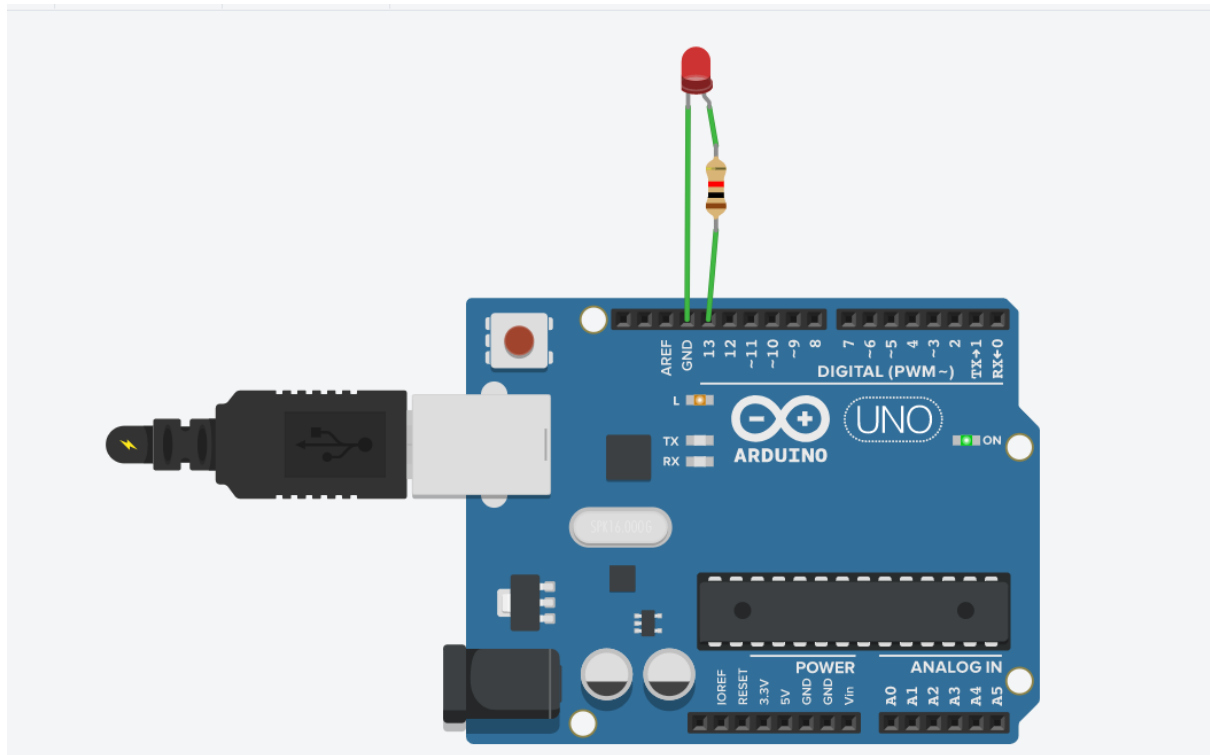
**Top Screenshot:** The simulation is in the 'Code' view. The code is as follows:

```
1 int ledPin=13;
2
3 void setup() {
4   // put your setup code here, to run once:
5   pinMode(ledPin,OUTPUT);
6 }
7
8 void loop() {
9   // put your main code here, to run repeatedly:
10  digitalWrite(ledPin,HIGH);
11  delay(1000);
12  digitalWrite(ledPin,LOW);
13  delay(1000);
14 }
```

**Middle Screenshot:** The simulation is in the 'Stop Simulation' view. The LED is shown as being turned on (illuminated). The 'Simulator time' is 00:00:00.

**Bottom Screenshot:** The simulation is in the 'Stop Simulation' view. The LED is shown as being turned off. The 'Simulator time' is 00:00:05.

The Led blinks after delays



Handwritten –

IBM18CS122

VARAD VITHAL KJ

## TOT

### 1) LED - BLINK

```
int ledPin = 13;
```

```
void setup()
```

```
{
```

```
    pinMode(ledPin, OUTPUT);
```

```
}
```

```
void loop()
```

```
{
```

```
    digitalWrite(ledPin, HIGH);
```

```
    delay(1000);
```

```
    digitalWrite(ledPin, LOW);
```

```
    delay(1000);
```

```
}
```

Var

