

Continuous Assessment – 1

20181CSE0621

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6 – CSE – 10

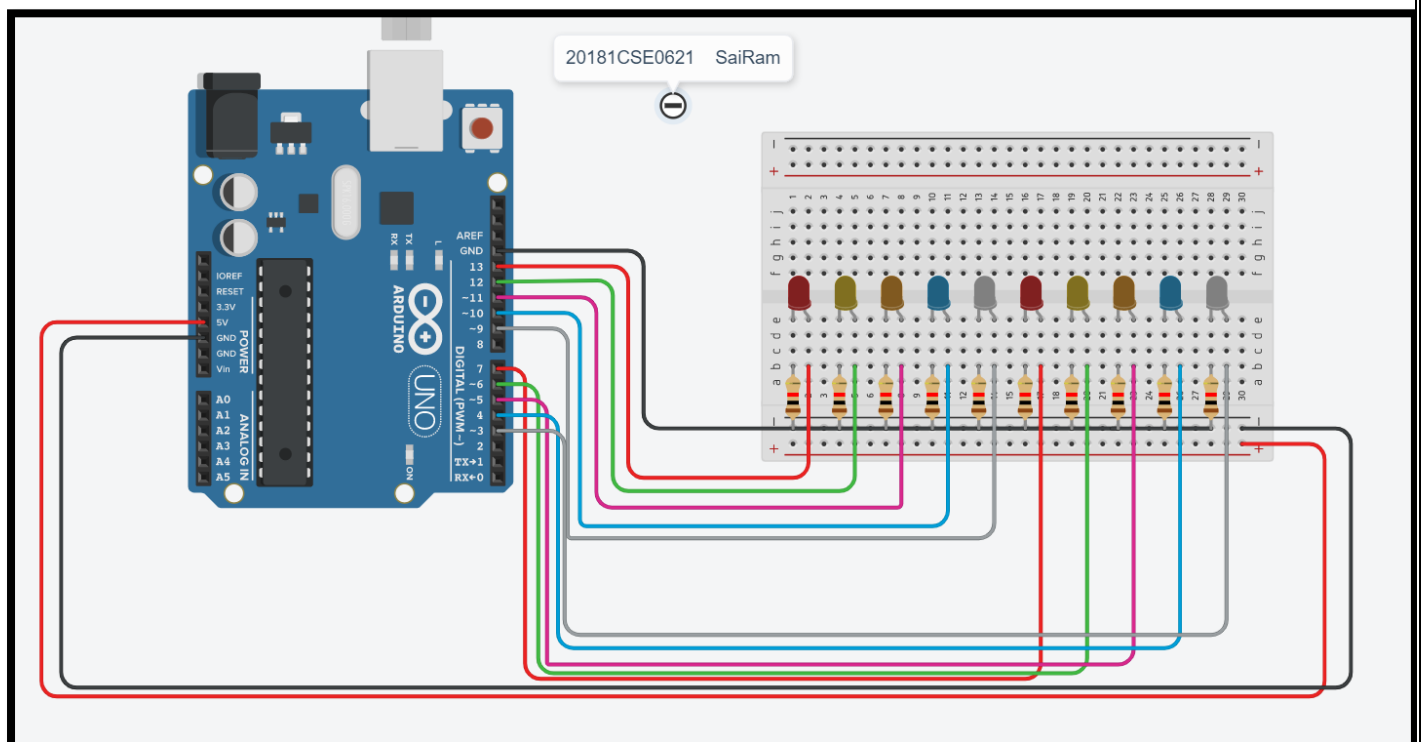
Set - C

Question : Write a sketch to blink an 10 leds front to back and back to front and simulate using tinker cadd tool.

Aim : To blink 10 LEDs forward and backward and simulate using TinkerCad.

Components Required : Arduino, Bread board, 10 resistors, 10 LEDs and sufficient jumper wires.

Initial Circuit Design :



Sketch :

```
int pins[] = {13,12,11,10,9,7,6,5,4,3};  
void setup()  
{  
  for(int i=0;i<10;i++){
```

```
    pinMode(pins[i], OUTPUT);

}

Serial.begin(9600);

}

void loop()
{
    for(int i=0;i<10;i++)
    {
        digitalWrite(pins[i],HIGH);
        delay(500);
        digitalWrite(pins[i],LOW);
        delay(1000);
    }

    Serial.println("Forward Blinking Completed....");

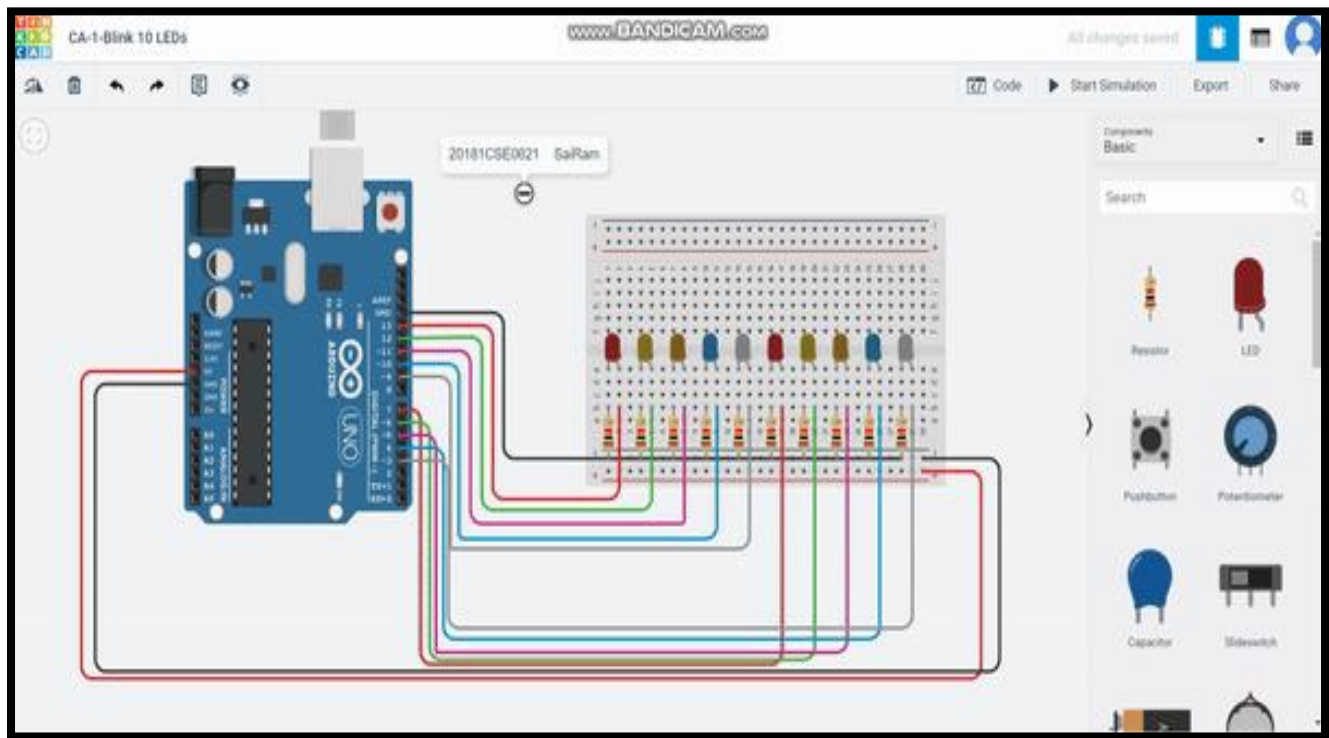
    for(int i=10;i!=-1;i--)
    {
        digitalWrite(pins[i],HIGH);
        delay(500);
        digitalWrite(pins[i],LOW);
        delay(1000);
    }

    Serial.println("Backward Blinking Completed....");

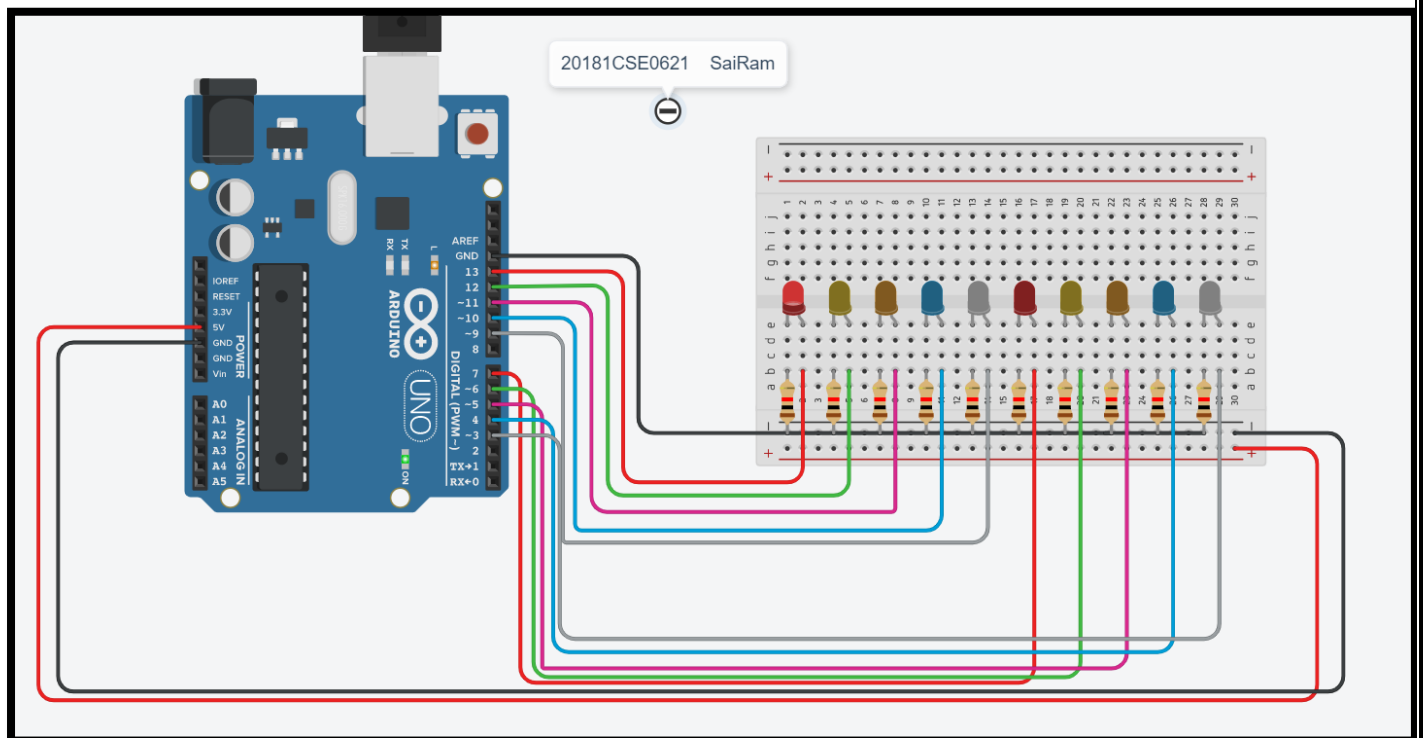
}
```

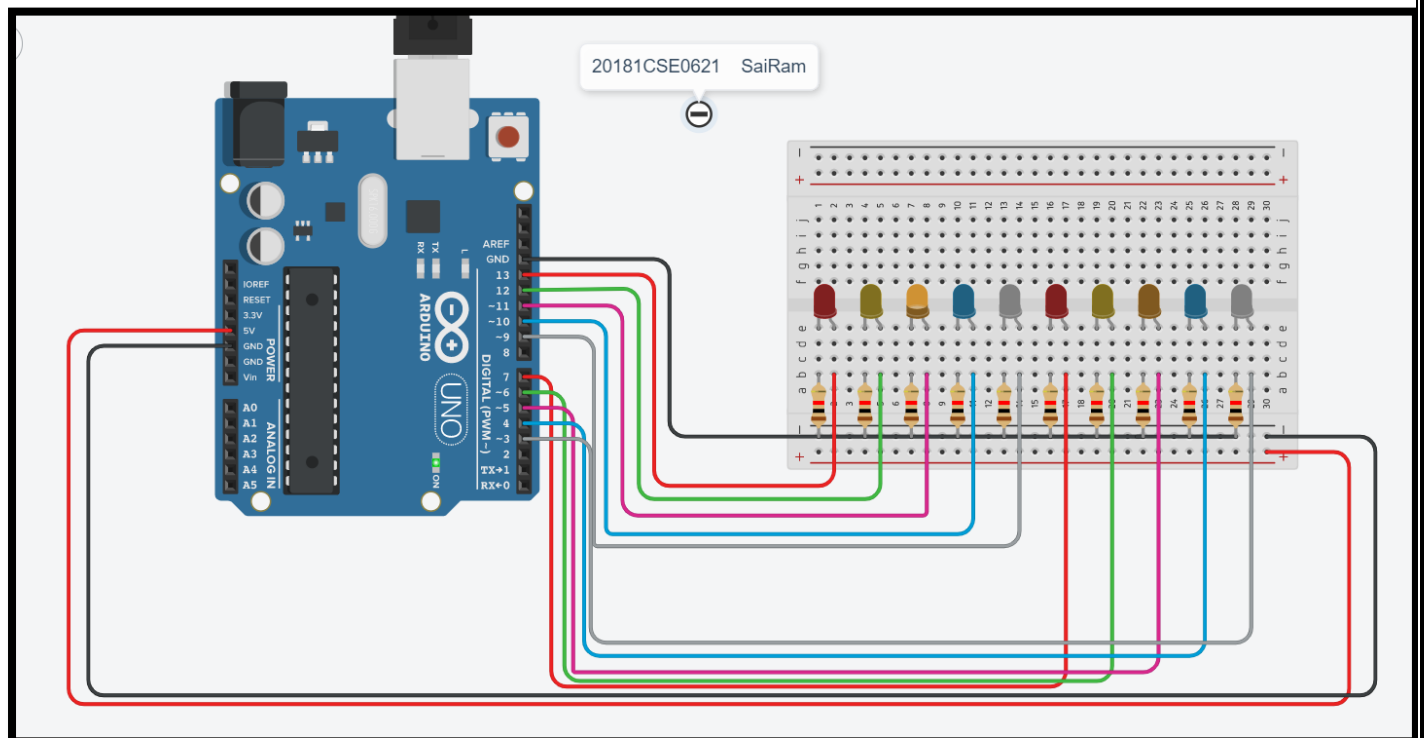
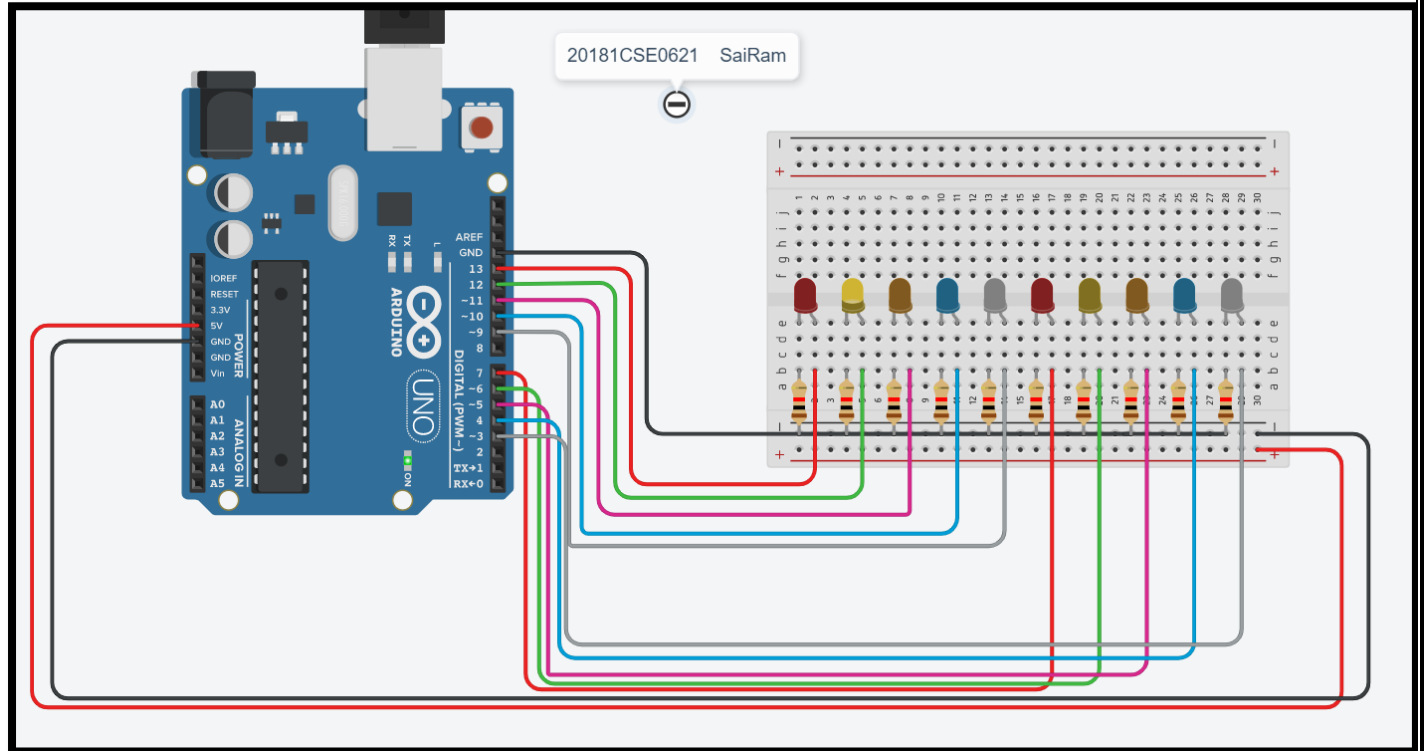
Output Screenshots :

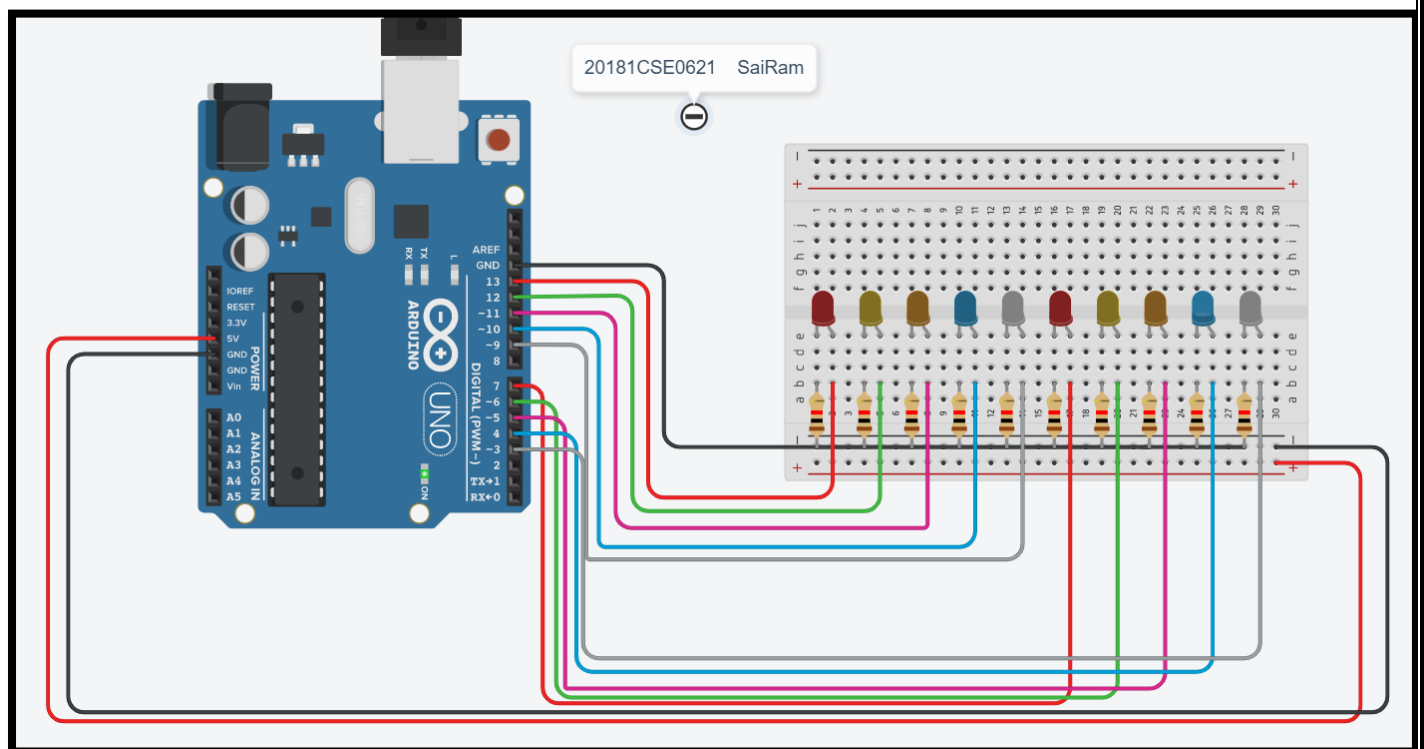
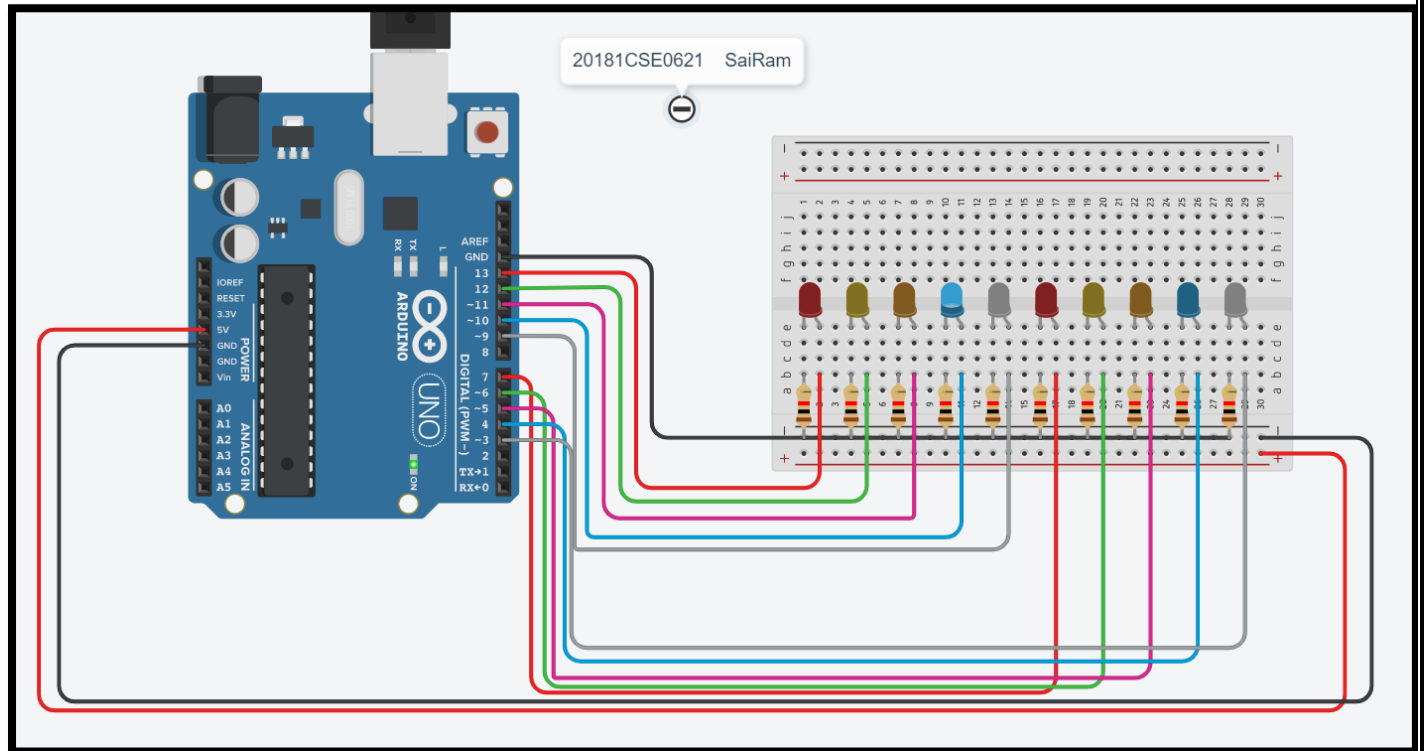
GIF :

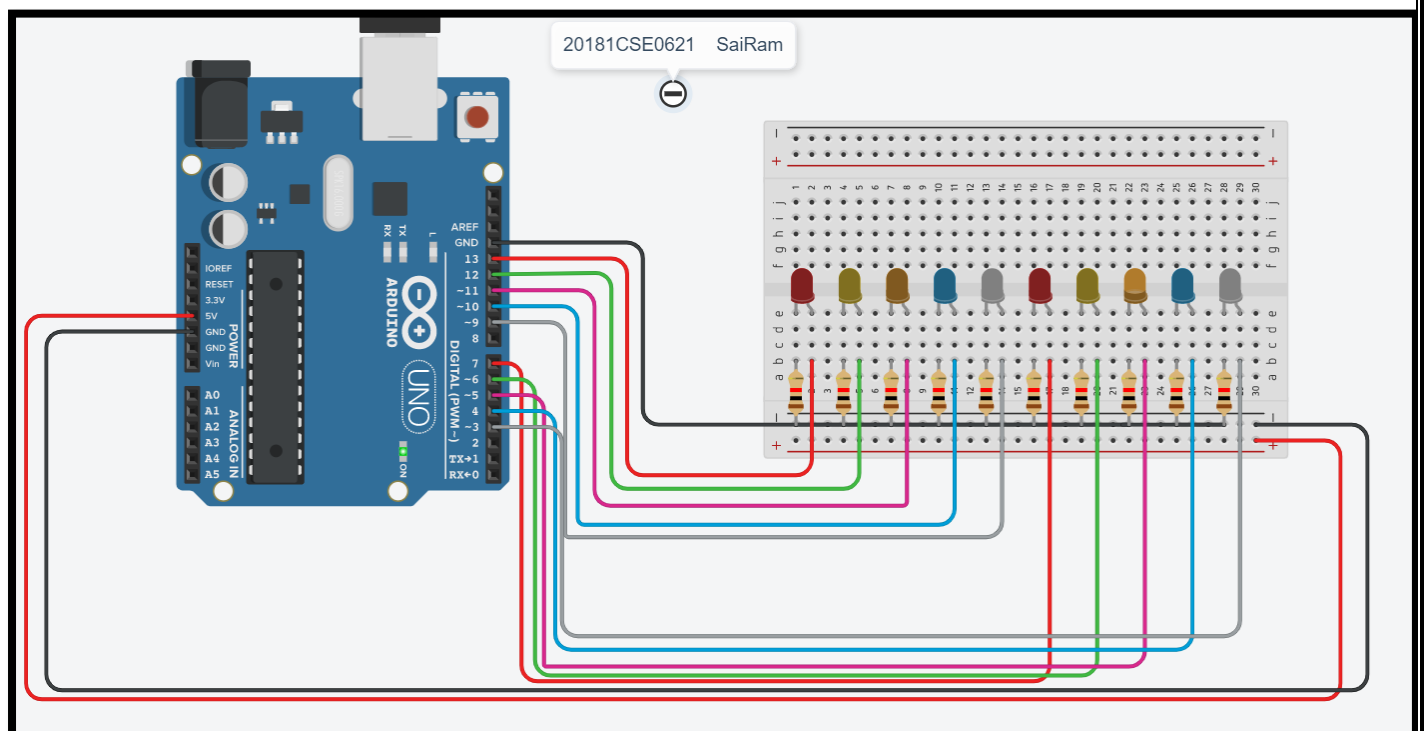
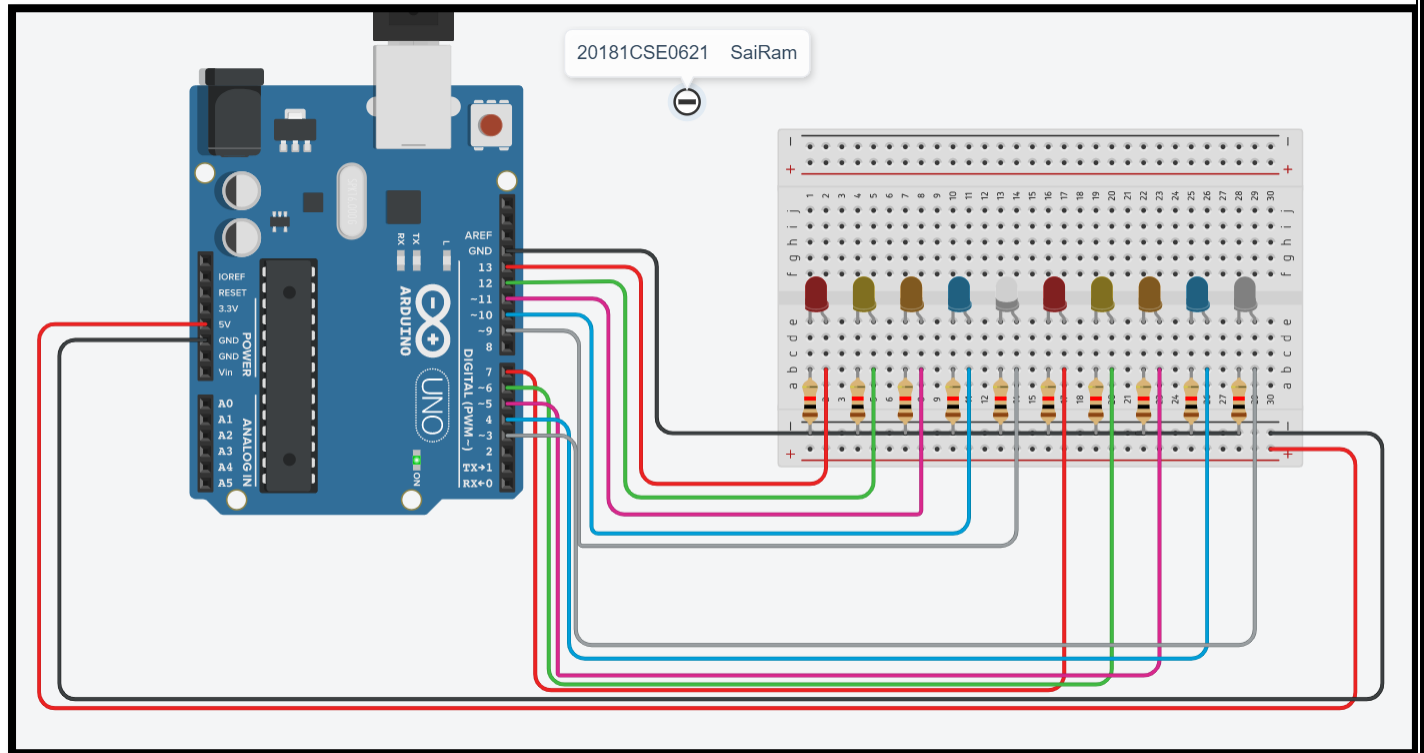


Forward Blinking :









Backward Blinking :

