Lab 3

ICS423 - Internet of Things

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Question

Task 1: write a sketch that uses 10 LED strips (make the 10 LEDs to blink).

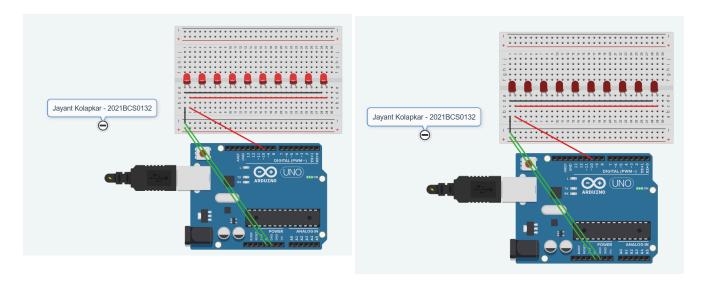
Task 2: Write a sketch that sequentially blinks LED strips (20 numbers) in three different colors.

Task 3: Identify a unique pattern to blink LED strips to use in your study room.

Task 1

Code

Output



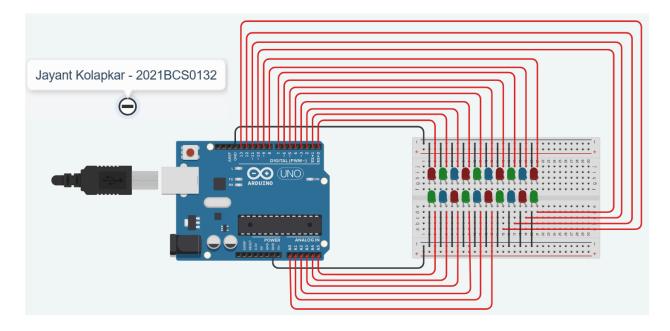
Task 2

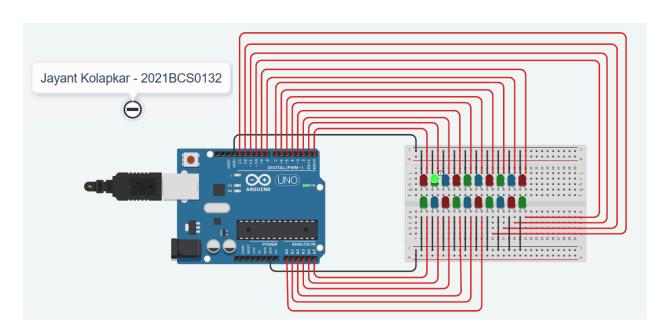
Code

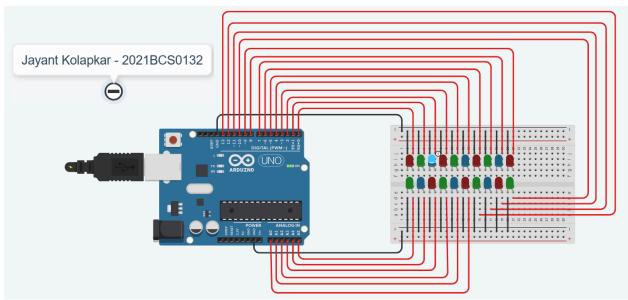
```
void setup()
{
  for (int pin = 0; pin <= 13; pin++)
  {
    pinMode(pin, OUTPUT);
  }
  for (int pin = A0; pin <= A5; pin++)
  {
    pinMode(pin, OUTPUT);
  }
}
void loop()
{
  for (int pin = 0; pin <= 13; pin++)
  {
    digitalWrite(pin, HIGH);
    delay(1000);
    digitalWrite(pin, LOW);</pre>
```

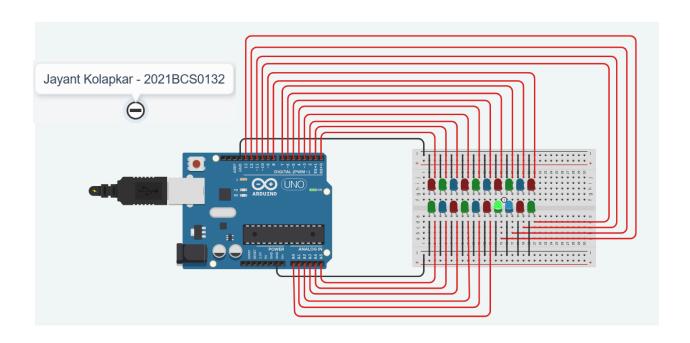
```
for (int pin = A0; pin <= A5; pin++)
{
    digitalWrite(pin, HIGH);
    delay(1000);
    digitalWrite(pin, LOW);
}</pre>
```

Output





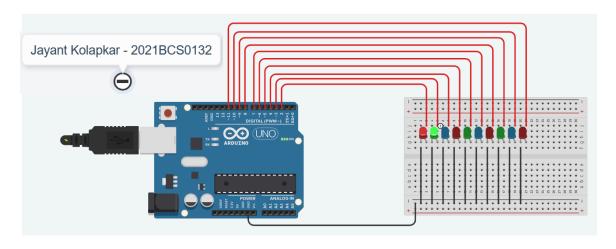


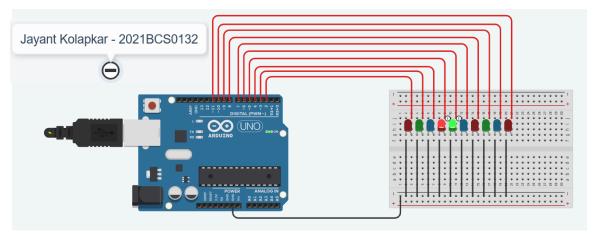


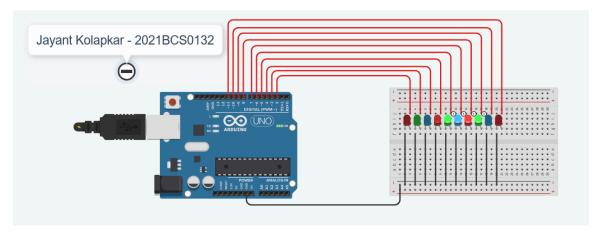
Task 3

Code

Output







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