

Internet of Things Laboratory

Assignment 6

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Problem Statement: Explore Tinker cad software

1. Write a program for LED blinking using Arduino.

// C++ code

```
void setup(){  
    pinMode(12, OUTPUT);  
    pinMode(11, OUTPUT);  
    pinMode(10, OUTPUT);  
}  
void loop(){  
    cyan();  
    pink();  
    yellow();  
    cyan();  
    yellow();  
    pink();  
}
```

```
void cyan(){  
    digitalWrite(12, 0);  
    digitalWrite(11, 100);  
    digitalWrite(10, 100);  
    delay(1000); // Wait for 1000 millisecond(s)  
    digitalWrite(12, LOW);  
    digitalWrite(11, LOW);  
    digitalWrite(10, LOW);  
    delay(1000); // Wait for 1000 millisecond(s)  
}
```

```
void pink(){  
    digitalWrite(12, 255);  
    digitalWrite(11, 192);  
    digitalWrite(10, 203);  
    delay(1000); // Wait for 1000 millisecond(s)  
    digitalWrite(12, LOW);  
    digitalWrite(11, LOW);  
    digitalWrite(10, LOW);  
    delay(1000); // Wait for 1000 millisecond(s)  
}
```

```
void yellow(){  
    digitalWrite(12, 255);  
    digitalWrite(11, 255);  
    digitalWrite(10, 0);
```

```
delay(1000); // Wait for 1000 millisecond(s)
digitalWrite(12, LOW);
digitalWrite(11, LOW);
digitalWrite(10, LOW);
delay(1000); // Wait for 1000 millisecond(s)
}
```

Output



