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Batch – S1

Roll No – 20

Practical No – 9

/* Create a program so that when the user enters 'b' the green light blinks, 'g' the green light is illuminated 'y' the yellow light is illuminated and 'r' the red light is illuminated */

```
const int greenLED = 11;
```

```
const int yellowLED = 12;
```

```
const int redLED = 13;
```

```
void setup() {
```

```
    // put your setup code here, to run once:
```

```
    pinMode(greenLED, OUTPUT);
```

```
    pinMode(yellowLED, OUTPUT);
```

```
    pinMode(redLED, OUTPUT);
```

```
    Serial.begin(9600);
```

```
}
```

```
void loop() {
```

```
    // put your main code here, to run repeatedly:
```

```
    if (Serial.available()) {
```

```
        char command = Serial.read();
```

```
        if (command == 'b') {
```

```
            for (int i = 0; i < 5; i++) {
```

```
                digitalWrite(greenLED, HIGH);
```

```
                delay(500);
```

```
                digitalWrite(greenLED, LOW);
```

```
                delay(500);
```

```
    }  
  }  
  else if (command == 'g') {  
    digitalWrite(greenLED, HIGH);  
    digitalWrite(yellowLED, LOW);  
    digitalWrite(redLED, LOW);  
  }  
  else if (command == 'y') {  
    digitalWrite(greenLED, LOW);  
    digitalWrite(yellowLED, HIGH);  
    digitalWrite(redLED, LOW);  
  }  
  else if (command == 'r') {  
    digitalWrite(greenLED, LOW);  
    digitalWrite(yellowLED, LOW);  
    digitalWrite(redLED, HIGH);  
  }  
}  
}  
}
```