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Subject : Internet of things
Class : SE(A)
Branch : AI&DS
Assignment No : 06

Problem Statement:

Create a program that illuminates the green LED if the counter is less than 100, illuminates the yellow LED if the counter is between 101 and 200 and illuminates the red LED if the counter is greater than 200

Code:

```
const int green=0;
const int yellow=2;
const int red=1;
unsigned int counter;

void setup() {
  pinMode(green,OUTPUT);
  pinMode(yellow,OUTPUT);
  pinMode(red,OUTPUT);

  digitalWrite(green,HIGH);
  digitalWrite(yellow,HIGH);
  digitalWrite(red,HIGH);
}

void loop () {
  counter=counter+1;
  delay(50);

  if(counter<=100) {
    digitalWrite(green,LOW);
    digitalWrite(yellow,HIGH);
    digitalWrite(red,HIGH);
  }

  else if ((counter>100)&&(counter<=200)) {
    digitalWrite(green,HIGH);
    digitalWrite(yellow,LOW);
    digitalWrite(red,HIGH);
  }

  else if(counter>200){
    digitalWrite(green,HIGH);
    digitalWrite(yellow,HIGH);
    digitalWrite(red,LOW);
  }
  if(counter>250){
    counter=0;
  }
}
```