

Experiment No. 6

Title: 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.

Roll No:SAI&DC75 Batch: S9

Date of Performance: __ / __ / __ __ __ __

Date of Assessment: __ / __ / __ __ __ __

Particulars	Marks
Attendance (05)	
Journal (05)	
Performance (05)	
Understanding (05)	
Total (20)	
Signature of Staff Member	

Program:-

```
int counter = 0;

void setup()

{

Serial.begin(9600);

pinMode(7,OUTPUT);

pinMode(8,OUTPUT);

pinMode(9,OUTPUT);

}

void loop() {

if(counter == 250)

{

counter=0;

}

if(counter < 250)

{

Serial.println(counter);

}

counter = counter + 1;

delay(100);


if(counter < 100 )

{

digitalWrite(7,LOW);

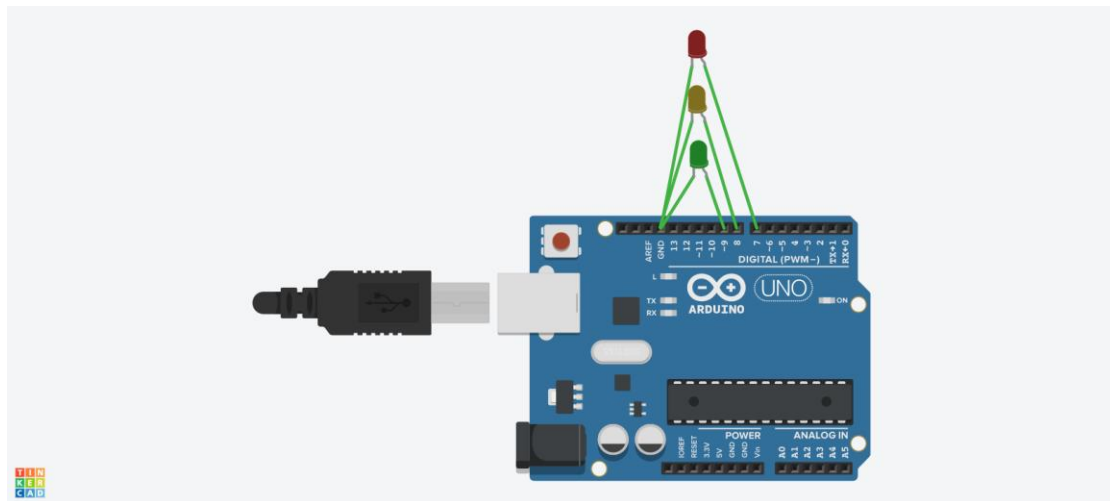
digitalWrite(8,LOW);

digitalWrite(9,HIGH);

}
```

```
if(counter > 101 && counter < 200 )  
{  
  digitalWrite(7,LOW);  
  digitalWrite(8,HIGH);  
  digitalWrite(9,LOW);  
}  
if( counter > 200 )  
{  
  digitalWrite(7,HIGH);  
  digitalWrite(8,LOW);  
  digitalWrite(9,LOW);  
}  
}
```

Circuit Diagram:-



Output:-

