/\*embedded program that produces continuous pulses with duration of 2 seconds and duty cycle of 22% \*/

Const int LED = 13;

void setup()

{

PinMode(LED,OUTPUT);

}

void loop()

{

digitalWrite(LED,HIGH);

delay(500) ;

digitalWrite(LED,LOW);

delay(1500);

}

/\*Write embedded program that show a bouncing light between 4 LEDs connected to pins 4, 5, 6 and 7 and The bouncing delay is 1 second\*/

int led\_1 = 4;

int led\_2 = 5;

int led\_3 = 6;

int led\_4 = 7;

void setup()

{

pinMode(led\_1,OUTPUT);

pinMode(led\_2,OUTPUT);

pinMode(led\_3,OUTPUT);

pinMode(led\_4,OUTPUT);

}

void loop()

{

digitalWrite(led\_1,HIGH);

delay(1000) ;

digitalWrite(led\_1,LOW);

digitalWrite(led\_2,HIGH);

delay(1000) ;

digitalWrite(led\_2,LOW);

digitalWrite(led\_3,HIGH);

delay(1000) ;

digitalWrite(led\_3,LOW);

digitalWrite(led\_4,HIGH);

delay(1000);

digitalWrite(led\_4,LOW);

digitalWrite(led\_3,HIGH);

delay(1000) ;

digitalWrite(led\_3,LOW);

digitalWrite(led\_2,HIGH);

delay(1000) ;

digitalWrite(led\_2,LOW);

}