```
int a = 0;
int brightA[]={0,10,20,30,40,50,60,70,80,90,100,110,120,130,140,150,160,170,180,190,200,210,
220,210,200,190,180,170,160,150,140,130,120,110,100,90,80,70,60,50,40,30,20,10,0};
int brightB[]={220,210,200,190,180,170,160,150,140,130,120,110,120,110,100,90,80,70,60,50,
40,30,20,10,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0};
intbrightC[]={0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,10,20,30,40,50,60,70,80,90,100,110,120,
130,140,150,160,170,180,190,200,210,210,220};
int photocell;
void setup ()
{
  Serial.begin(9600);
  pinMode (7,INPUT);
  pinMode (9,OUTPUT); //red led
  pinMode (10, OUTPUT); //green
  pinMode (11,OUTPUT); //blue
}
void loop (){
if (digitalRead (7)==HIGH) {
{
  for (a=0; a<45; a++) {
    analogWrite (9, brightB[a]);
    analogWrite (10, brightA[a]);
    analogWrite (11,brightC[a]);
    delay(50);
    photocell = analogRead(0);
    Serial.print(650-(a*5));
    Serial.print(", ");
```

```
    Serial.println(photocell);
    delay(50);
  }
}
}
}
```