

Project 6 - Dim the lights

Copy and Paste the code below into the Arduino sketch window. Verify and upload the code to the board.

```
// Project 6 - Dim the lights

int but1=2;
int but2=3;
int led = 5;
int x=0;
int c;
void setup(){
  Serial.begin(9600);
  pinMode(5,OUTPUT);
  pinMode(2,INPUT_PULLUP);
  pinMode(3,INPUT_PULLUP);
  //
}
void loop(){
  attachInterrupt(digitalPinToInterrupt(but1),increase,LOW);
  attachInterrupt(digitalPinToInterrupt(but2),decrease,LOW);
  delay(1000);
  c=0;
}
void increase()
{
  if(x>-1 && x<255 && c==0){
    c=1;
    x=x+10;
  }
}
```

```
Serial.println(x);  
analogWrite(5,x);  
return x;  
}  
else if(x>255){  
x=0;  
}  
}  
void decrease(){  
if(x>0 && x<255 && c==0){  
c=1;  
x=x-10;  
Serial.println(x);  
analogWrite(5,x);  
return x;  
}  
else if(x<0){  
x=0;  
}  
}
```