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//UCI STUDY GROUP FOR WALKING CRITTERS
```

```
// D E M O 1   PWM with DC motor on Arduino
```

```
//Created 4/29 by Ron Kessler
```

```
//NOTES:
```

```
//  Command    Period    Time ON    Duty Cycle
//    50        2ms.     .4ms.     .4/2 * 100 = 20%
//   150        2ms     1.2ms     1.2/2 * 100 = 60%
//   200        2ms     1.6ms     1.6/2 * 100 = 80%
```

```
//---define our PWM output pin as D9
```

```
int motorPin = 9;
```

```
void setup() {
```

```
  pinMode(motorPin,OUTPUT); //tell duino we want it to send a signal, not receive
```

```
}
```

```
void loop()
```

```
{
```

```
  //---now send a pulse a specified width continuously
```

```
  analogWrite(motorPin,150); //use 50-255 for motor speed. Less than 50 requires a little push to get it spinning!
```

```
}
```