```
/*
Programa que comprueba el funcionamiento de los motores

 */

int x=0;
int  motl  =    2;
int motr = 3;
void setup()
{
  Serial.begin(9600);
  pinMode(motl, OUTPUT);
  pinMode(motr, OUTPUT);
}


void adelante ()
{
  digitalWrite(motl,HIGH);
  delayMicroseconds(1000);
  digitalWrite(motl,LOW);
  digitalWrite(motr,HIGH);
  delayMicroseconds(2000);
  digitalWrite(motr,LOW);
  delayMicroseconds(20000);
}
void atras ()
{
  digitalWrite(motr,HIGH);
  delayMicroseconds(1000);
  digitalWrite(motr,LOW);
  digitalWrite(motl,HIGH);
  delayMicroseconds(2000);
  digitalWrite(motl,LOW);
  delayMicroseconds(20000);
}
void derecha ()
{
  digitalWrite(motl,HIGH);
  delayMicroseconds(2000);
  digitalWrite(motl,LOW);
  digitalWrite(motr,HIGH);
  delayMicroseconds(2000);
  digitalWrite(motr,LOW);
  delayMicroseconds(20000);
}
void izquierda ()
{
  digitalWrite(motr,HIGH);
```

```
  delayMicroseconds(2000);
  digitalWrite(motr,LOW);
  digitalWrite(motl,HIGH);
  delayMicroseconds(2000);
  digitalWrite(motl,LOW);
  delayMicroseconds(20000);
}

void loop()
{

  Serial.println("adelante");
  for (x=0;x<1000;x=x+1)
  {
    adelante();
  }
  Serial.println("derecha");
  for (x=0;x<1000;x=x+1)
  {
    derecha();
  }
  Serial.println("atras");
  for (x=0;x<1000;x=x+1)
  {
    atras();
  }
  Serial.println("izquierda");
  for (x=0;x<1000;x=x+1)
  {
    izquierda();
  }
  delay (3000);
}
```