

```
void main ( void )  
{
```

```
  StartUltrasonic ( 1 , 11 ) ;
```

```
  while ( 1 )  
  { // Run this loop forever...
```

```
    ultrasonic = GetUltrasonic ( 1 , 11 ) ; // Get Sensor Reading
```

```
    if ( ultrasonic < 45 ) // If the sensor < 45 inches away  
    {
```

```
      SetMotor ( 6 , -30 ) ; // Turn ears right quickly
```

```
      Wait ( 500 ) ;
```

```
      SetMotor ( 6 , 30 ) ; // Turn ears left quickly
```

```
      Wait ( 500 ) ;
```

```
      SetMotor ( 6 , 0 ) ; // Turn off ear motor
```

```
      SetMotor ( 5 , -127 ) ; // Start Left Motor
```

```
      SetMotor ( 2 , 127 ) ; // Start Right Motor
```

```
      Wait ( 1200 ) ; // Roll forward for 1.2 seconds
```

```
      SetMotor ( 5 , 0 ) ; // Stop Left Motor
```

```
      SetMotor ( 2 , 0 ) ; // Stop right motor
```

```
    }
```

```
  }
```

```
}
```