

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

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

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

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

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

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

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

```
Wait ( 1000 ); // Wait a second...
```

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

```
SetMotor ( 2 , 0 ); // Stop Right Motor
```

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

```
Wait ( 1000 ); // Wait a second...
```

```
SetMotor ( 6 , 30 ); // Move ears left
```

```
Wait ( 1000 ); // Wait a second...
```

```
SetMotor ( 6 , 0 ); // Stop Ear Motor
```

```
SetMotor ( 5 , 60 ); // Reverse Motors
```

```
SetMotor ( 2 , -60 ); // Reverse Motors
```

```
Wait ( 1500 ); // For 1.5 seconds
```

```
SetMotor ( 5 , 60 ); // Begin rotation (Reverse Left Motor)
```

```
SetMotor ( 2 , 60 ); // Begin rotation (Keep right motor the same)
```

```
random_time = GetRandomNumber ( 1000 , 2000 ); // Rotate for a random time between 1 and 2 seconds
```

```
Wait ( random_time ); // Rotate Left
```

```
}
```

```
}
```

```
}
```