

```
#include <Servo.h>
```

```
Servo myservo; // my servo declared, take note
```

```
// ALL program lines been explain and declared !!!!
```

```
int pos = 0; // variable to store the servo position
```

```
void setup()
```

```
{
```

```
myservo.attach(9); // for experiment attached the servo on
```

```
// PWM pin 9 to the servo object/ 5V red/ ground GND brown control pin
```

```
// digital 9 PWM orange/ SG90 tower pro
```

```
}
```

```
void loop()
```

```
{
```

```
for(pos = 0; pos <= 180; pos += 1) // goes from 0 degrees to 180 degrees
```

```
{ // in steps of 1 degree
```

```
myservo.write(pos); // tell servo to go to position in variable pos
```

```
delay(15); // waits 15ms for the servo to reach the position
```

```
}
```

```
for(pos = 180; pos >= 0; pos -= 1) // goes from 180 degrees to 0 degrees
```

```
{
```

```
myservo.write(pos); // tell servo to go to position in variable pos
```

```
delay(15); // waits 15ms for the servo to reach the position
```

```
}
```

```
}
```