

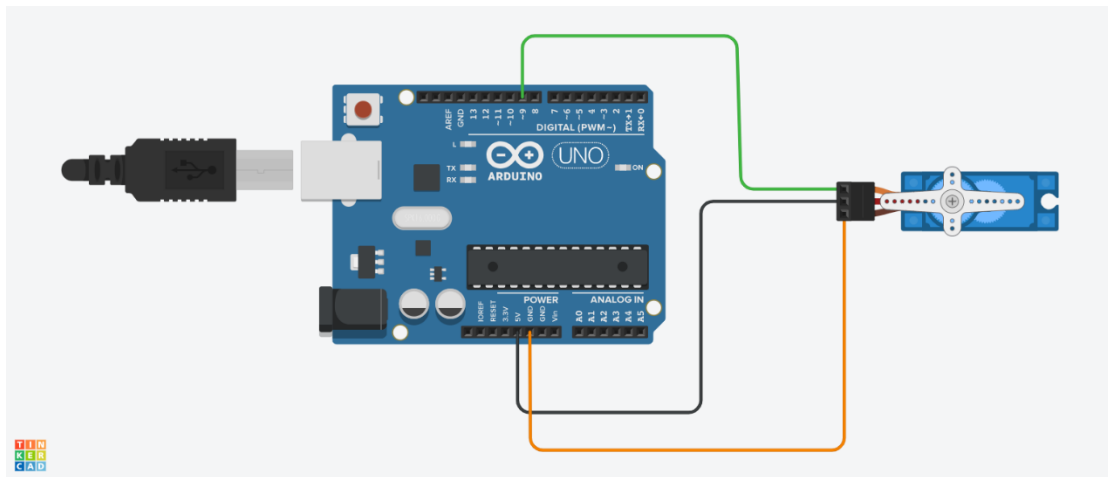
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## First Task: servo motor

## First Week

Objective : Make a servo motor sweep by using Arduino

Circuit diagram :



The code :

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

```
Servo myservo; // create servo object to control a servo
```

```
twelve servo objects can be created on most boards //
```

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

```
} ()void setup
```

```
myservo.attach(9); // attaches the servo on pin 9 to the servo object
```

```
{
```

```
} ()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
```

```
{
```

```
}
```