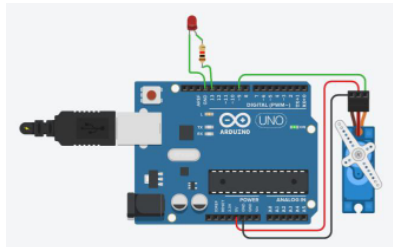**ARDUINO BASED SERVO MOTOR AND LED**

Circuit design :
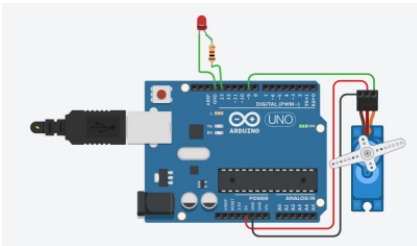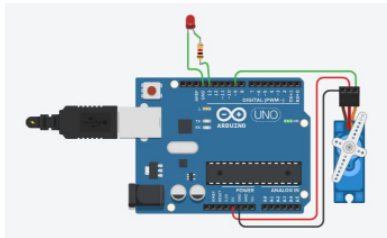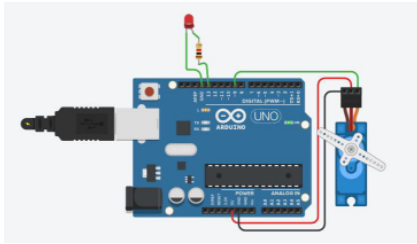
Code:

```
#include <Servo.h>

Int pos = 0;

Servo servo_9;

Void setup()

{

Servo_9.attach(9, 500, 2500);

 pinMode(13,OUTPUT);

}

Void loop()

{

 For (pos = 0; pos <= 180; pos += 1) {

 Servo_9.write(pos);

 Delay(15);

 digitalWrite(13, LOW);

delay(100);
```

```
 digitalWrite(13, HIGH);

delay(100);

 }

 For (pos = 180; pos >= 0; pos -= 1) {

Servo_9.write(pos);

 Delay(15);

 }

 }
```