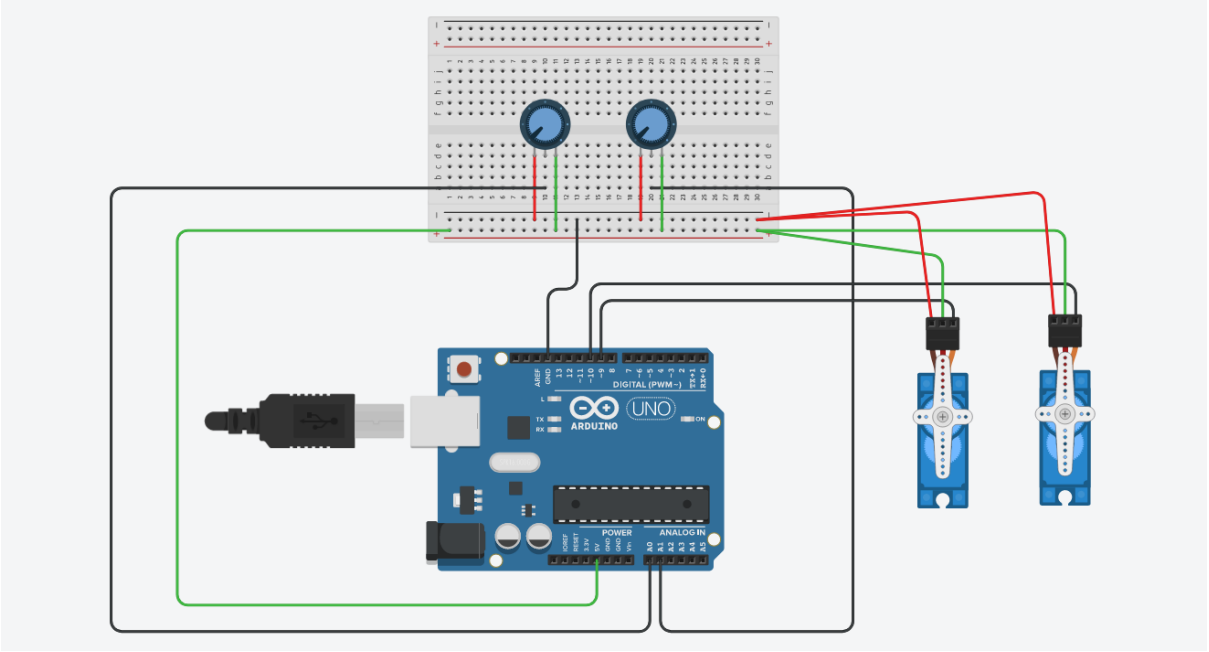
Practical 5

Aim: - Write Python code to test motors.

Components

- Arduino Uno R3
- Breadboard
- Micro Servo
- Potentiometer

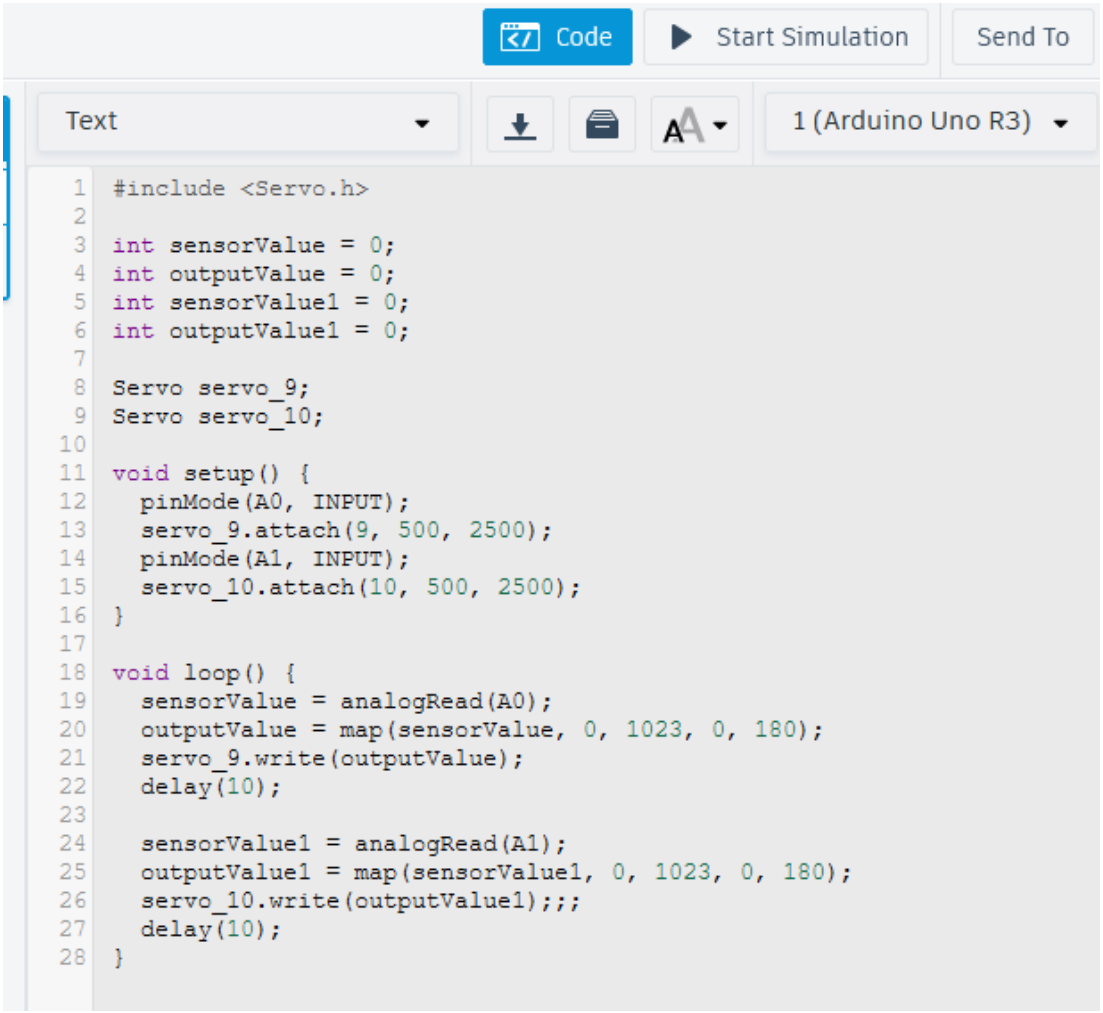
Step 1: Create the following circuit in [tinkercard]



Step 2: Write the following code

```
#include <Servo.h>

int sensorValue = 0;
int outputValue = 0;
int sensorValue1 = 0;
int outputValue1 = 0;

Servo servo_9;
Servo servo_10;
```

```
void setup() {
  pinMode(A0, INPUT);
  servo_9.attach(9, 500, 2500);
  pinMode(A1, INPUT);
  servo_10.attach(10, 500, 2500);
}

void loop() {
  sensorValue = analogRead(A0);
  outputValue = map(sensorValue, 0, 1023, 0, 180);
  servo_9.write(outputValue);
  delay(10);

  sensorValue1 = analogRead(A1);
  outputValue1 = map(sensorValue1, 0, 1023, 0, 180);
  servo_10.write(outputValue1);;;
  delay(10);
}
```



Step 3: Run the Simulation

By adjusting the potentiometer the servo also rotates