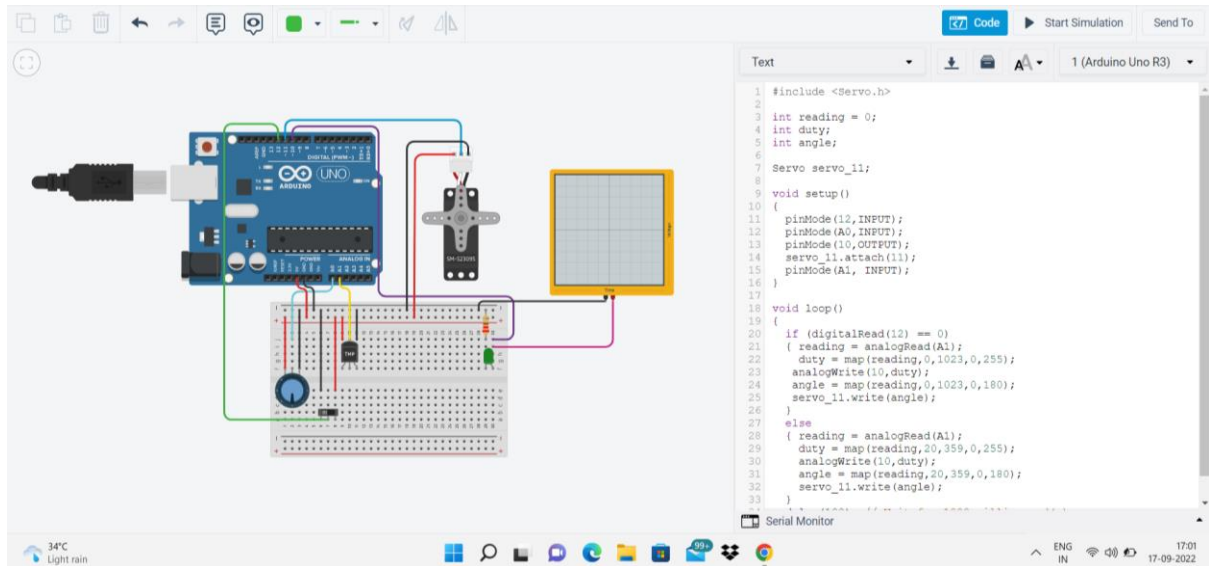


SENSORS AND ACTUATORS ARDUINO

DIAGRAM:



CODE:

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

```
int reading = 0;
```

```
int duty;
```

```
int angle;
```

```
Servo servo_11;
```

```
void setup()
```

```
{
```

```
  pinMode(12,INPUT);
```

```

pinMode(A0,INPUT);
pinMode(10,OUTPUT);
servo_11.attach(11);
pinMode(A1, INPUT);
}

void loop()
{
  if (digitalRead(12) == 0)
  { reading = analogRead(A1);
    duty = map(reading,0,1023,0,255);
    analogWrite(10,duty);
    angle = map(reading,0,1023,0,180);
    servo_11.write(angle);
  }
  else
  { reading = analogRead(A1);
    duty = map(reading,20,359,0,255);
    analogWrite(10,duty);
    angle = map(reading,20,359,0,180);
    servo_11.write(angle);
  }
  delay(100); // Wait for 1000 millisecond(s)
}

```