```
#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(A0);
  duty= map(reading,0,1023,0,255);
  analogWrite(10, duty);
  angle= map(reading,0,1023,0,180);
  servo_11.write(180);
  }
  else
  { reading = analogRead(A1);
   duty= map(reading,20,359,0,255);
   analogWrite(10, duty);
   angle= map(reading,20,359,0,180);
```

```
    servo_11.write(180);
  }
  delay(100);
}
```