PROJECT CODE

Knee Joint Arduino Code:

```
#include <Servo.h>
#define EMG_PIN 0
#define SERVO_PIN1 8
Servo SERVO_1;
void setup()
{
Serial.begin(115200);
SERVO_1.attach(SERVO_PIN1);
SERVO_1.write(25);
}
void loop()
{
int value = analogRead(EMG_PIN);
if(value >500  && value <700)
{
SERVO_1.write(55);
delay(1000);
  }
else
{
SERVO_1.write(25);
delay(500);
}
Serial.println(value);
delay(100);
}
```

Ankle Joint Arduino Code:

```
#include <Servo.h>
#define EMG_PIN 0
#define SERVO_PIN 8
Servo SERVO;
void setup()
{
Serial.begin(115200);
SERVO.attach(SERVO_PIN);
SERVO.write(45);
}
void loop()
{
int value = analogRead(EMG_PIN);
if(value <200&& value >150)
{
SERVO.write(65);
delay(1000);
}
```

```
else
{
SERVO.write(30);
delay(500);
}
Serial.println(value);
delay(100);
}
```