Arduino Code

```
#include <Braccio.h> // Include the Braccio library
#include<Servo.h>
Servo base;
Servo shoulder;
Servo elbow;
Servo wrist rot;
Servo wrist ver;
Servo gripper;
// Define constants for link lengths (in cm) for the Braccio arm
const float L1 = 12.5; // Length of link 1 (shoulder to elbow)
const float L2 = 12.5; // Length of link 2 (elbow to wrist)
const float L3 = 7.15; // Length of link 3 (wrist to end-effector)
void setup() {
    Serial.begin(9600); // Initialize serial communication
    delay(1000);
    Braccio.begin(); // Initialize Braccio
void loop() {
    float x = 10, y = 20, gamma=90;
    moveBraccio(x, y, gamma);
    delay(1000); // Wait for 1 second before next iteration
void moveBraccio(float x, float y, float gamma) {
    //we did the same thing mentioned into the picture finding point (a,b)
    float a = x - (L3 * cos(radians(gamma)));
   float b = y - (L3 * sin(radians(gamma)));
   float C = sqrt(pow(a, 2) + pow(b, 2));
 // Check if position is within reachable workspace
 if ((L1 + L2) > C) {
   // Calculate angles
        float alpha = degrees(acos((pow(L1, 2) + pow(C, 2) - pow(L2, 2)) / (2
 L1 * C)));
```