CODE FOR THE SMART GLOVE

```cpp
#include <LiquidCrystal_I2C.h>


#define thumb 34

#define index 35

#define middle 32

#define ring 33

#define little 25


int THUMB,INDEX,MIDDLE,RING,LITTLE;


LiquidCrystal_I2C lcd(0x27, 16, 2);


void sign(){
 lcd.clear();
 int Thumb = map(THUMB,3000,4100,0,100);
 int Index = map(INDEX,3000,4100,0,100);
 int Middle = map(MIDDLE,3000,4100,0,100);
 int Ring = map(RING,3000,4100,0,100);
 int Little = map(LITTLE,3000,4100,0,100);

 if ((Thumb <= 17) && (Index <=55) && (Middle <=63)){
  lcd.setCursor(5,0);
  lcd.print("Hello");
  lcd.setCursor(1,1);
  lcd.print("My Friend");
 }
 else if ((Thumb > 16) && (Index >56) && (Middle > 63)){
  lcd.setCursor(4,0);
  lcd.print("I AM");
  lcd.setCursor(5,1);
  lcd.print("Ready");
 }
```

```
  Serial.print("THUMB = ");
  Serial.println(Thumb);
  Serial.print("INDEX = ");
  Serial.println(Index);
  Serial.print("MIDDLE = ");
  Serial.println(Middle);
  Serial.print("RING = ");
  Serial.println(Ring);
  Serial.print("LITTLE = ");
  Serial.println(Little);
  Serial.println("");
  delay(2000);
}

void setup() {
  pinMode(thumb,INPUT);
  pinMode(index,INPUT);
  pinMode(middle,INPUT);
  pinMode(ring,INPUT);
  pinMode(little,INPUT);
  Serial.begin(115200);
  lcd.init();
  lcd.clear();
  lcd.backlight();
}

void loop() {
  THUMB = analogRead(thumb);
  INDEX = analogRead(index);
  MIDDLE = analogRead(middle);
  RING = analogRead(ring);
  LITTLE = analogRead(little);

  sign();
}
```