```
// include the library code:
#include <LiquidCrystal.h>
#include <Servo.h>

// initialize the library with the numbers of the interface pins
LiquidCrystal lcd(8, 9, 4, 5, 6, 7);

Servo myservo;  // create servo object to control a servo
// twelve servo objects can be created on most boards

int pos = 90;    // variable to store the servo position
int posi = 0;   //0 szervo fel irany, 1 szervo le irány
int mode = 0;  //mode=0->servo pörög aut, mode=1->kézi szervó állítás,
mode=2->servo fél állásban
int x = 0;        //bill beolvasás

void lcdkiir() {
  lcd.setCursor(0,0);
  lcd.print("Mod:");
  lcd.print(mode);
  lcd.print(" pos:");
  lcd.print(pos);
  lcd.print("   ");

  lcd.setCursor(0,1);
  lcd.print("anax:");
  lcd.print(x);
  lcd.print("           ");
}

void setup() {
  // set up the LCD's number of columns and rows:
  lcd.begin(16, 2);
  // Print a message to the LCD.

  myservo.attach(3);  // attaches the servo on pin 3 to the servo object
}

void loop() {

lcdkiir();

  x = analogRead (0);

  if (x<1000) {delay(200);};

  lcd.setCursor(10,1);
  if (x < 60) {
    lcd.print ("Right ");
    if (pos<180) {pos=pos+15;};
  }
  else if (x < 200) {
    lcd.print ("Up    ");
    if (mode<2) {mode=mode+1;pos = 90;};
  }
  else if (x < 400){
    lcd.print ("Down  ");
    if (mode>0) {mode=mode-1;pos = 90;};
  }
  else if (x < 600){
    lcd.print ("Left  ");
    if (pos>=15) {pos=pos-15;};
  }
  else if (x < 800){
    lcd.print ("Select");
  }

switch (mode) {
  case 0: //90 fokos pozíció

    if (pos>90) {pos=pos-1;};
    if (pos<90) {pos=pos+1;};
    myservo.write(pos);              // tell servo to go to position in
variable 'pos'
    delay(15);                       // waits 15ms for the servo to reach
the position

    break;

  case 1: // left-righ gombbal mozgatható

    myservo.write(pos);              // tell servo to go to position in
variable 'pos'
    delay(15);                       // waits 15ms for the servo to reach
the position
    lcdkiir();

    break;

  case 2: //aut-le-fel pörgetés

  if ((posi==0) and (pos<180)) { pos = pos + 1;}
  if  ((posi==1) and (pos>0)) { pos = pos -1;}
    myservo.write(pos);              // tell servo to go to position in
variable 'pos'
    delay(15);                       // waits 15ms for the servo to reach
the position
    lcdkiir();
  if ((pos==0) or (pos==180)) { if (posi==1) {posi=0;} else {posi=1;};};

    break;

  default:
    mode = 0;
  break;
}
```