```cpp
#include <Servo.h>

#include <LiquidCrystal.h>

LiquidCrystal lcd(8,9,10,11,12,13);

int signal,pos;

Servo antennaServo;

int bestAngle = 0;

int bestSignal = -100; // dBm, lower is worse


void setup() {

  lcd.begin(16, 2);

  Serial.begin(9600);

  lcd.setCursor(0, 0);

  lcd.print("----------------");

  lcd.setCursor(0, 1);

  lcd.print("----------------");

  delay(2000);

  lcd.clear();


  Serial.begin(9600);

  antennaServo.attach(3); // Servo on pin 9

}


void loop() {

  signal = analogRead(A0) >> 2;

   lcd.setCursor(0, 0);

   lcd.print("Signal:");

   Lcd_Decimal3(7, 0, signal);

  bestSignal = -100;
```

```cpp
   bestAngle = 0;


if(signal>100){antennaServo.write(pos);lcd.setCursor(0, 1);
   lcd.print(" Strong Signal  ");}
else{
 pos++;
 if(pos>179){pos=0;}
 else{
  lcd.setCursor(0, 1);
  lcd.print("  Weak Signal   ");
 antennaServo.write(pos);delay(100);
 }
}
Serial.println(pos);


}


void Lcd_Decimal3(unsigned char com,unsigned char com1,unsigned int val)
 {
   unsigned int Lcd_h,Lcd_hr,Lcd_t,Lcd_o;
   lcd.setCursor(com,com1);
   Lcd_h=val/100;
   Lcd_hr=val%100;
   Lcd_t=Lcd_hr/10;
   Lcd_o=Lcd_hr%10;

   lcd.setCursor(com,com1);
   lcd.write(Lcd_h+0x30);
```

```
        lcd.setCursor(com+1,com1);

        lcd.write(Lcd_t+0x30);

        lcd.setCursor(com+2,com1);

        lcd.write(Lcd_o+0x30);

 }
int scanSignal() {



}
```