Digital Force and Weight Measurement System

Arduino Code:

```
#include <HX711_ADC.h>
#include <LiquidCrystal.h>
// HX711 pins
#define DT 3
#define SCK 2
HX711_ADC LoadCell(DT, SCK);
// LCD(rs, en, d4, d5, d6, d7)
LiquidCrystal lcd(7, 6, 5, 4, 9, 8);
void setup() {
  Serial.begin(9600);
// LCD init
   lcd.begin(16, 2);
   lcd.clear();
   lcd.print("Initializing...");
// HX711 init
    LoadCell.begin();
    delay(500);
  // Start and tare load cell
  LoadCell.start(2000);    // wait for stabilization
  LoadCell.setCalFactor(1.0);  // temporary calibration
  lcd.clear();
  lcd.print("Ready");
  delay(1000);
}
void loop() {
  LoadCell.update();
  float force = LoadCell.getData();  // raw value
  lcd.setCursor(0, 0);
  lcd.print("Force: ");
  lcd.print(force, 2);   // show 2 decimals
```

```
  lcd.print(" N   ");
  delay(200);
}
```