

# Menu Selection in LCD by using PC Monitor Input

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#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0x27, 16, 2);

int temp;
int Rh;
int pressure;
void setup() {
  lcd.begin();
  lcd.backlight();
  Serial.begin(9600);
  Serial.println("1. Temperature");
  Serial.println("2. Humidity");
  Serial.println("3. Barometric Pressure");
  lcd.setCursor(0, 0);
  lcd.print("SelectOne-");
  lcd.setCursor(10, 0);
  lcd.print("1.Temp");
  lcd.setCursor(0, 1);
  lcd.print("2.Humid");
  lcd.setCursor(7, 1);
  lcd.print("3.Presure");
  delay(5000);
  lcd.clear();
  lcd.setCursor(0, 0);
  lcd.print("Enter Choice -");
  lcd.setCursor(0, 1);
}

```

```

void loop() {
  label:
  Serial.println("Which sensor would you like to
  read? ");
  while (Serial.available() == 0) {
  }
  int menuChoice = Serial.parseInt();
  switch (menuChoice) {
  case 1:
    // temp sensor code goes here
    Serial.print("The temperature is: ");
    Serial.println(temp);
    lcd.clear();
    lcd.setCursor(0, 0);
    lcd.print("Temperature -");
    lcd.setCursor(13, 0);
    lcd.print(temp);
    lcd.setCursor(0, 1);
    lcd.print("Enter 4 GoBack");
    break;
  case 2:
    // humidity sensor code goes here

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Serial.print("The humidity is: ");
Serial.println(Rh);
lcd.clear();
lcd.setCursor(0, 0);
lcd.print("Humidity -");
lcd.setCursor(12, 0);
lcd.print(Rh);
lcd.setCursor(0, 1);
lcd.print("Enter 4 GoBack");
break;
case 3:
// pressure sensor code goes here
Serial.print("The barometric pressure is: ");
Serial.println(pressure);
lcd.clear();
lcd.setCursor(0, 0);
lcd.print("Pressure -");
lcd.setCursor(12, 0);
lcd.print(pressure);
lcd.setCursor(0, 1);
lcd.print("Enter 4 GoBack");
break;

case 4:
lcd.clear();
lcd.setCursor(0, 0);
lcd.print("Enter Choice -");
lcd.setCursor(0, 1);
goto label;

default:
Serial.println("Please choose a valid
selection");

}
```