I just made a voltage divider and made arduino calculate the voltage of it. I used 2 resistors in order to match r1+r2/r2 with 9v/5v. İts not the best option to measure the battery life but this is the easiest way. İts not accurate but still gives you an idea.

You can use the equations from the lecture notes if you dont remember them by heart.

Just the voltage divider nothing much.

I also added the code for arduino and the circuits as well so you can add them to report to make it look fancy ☺