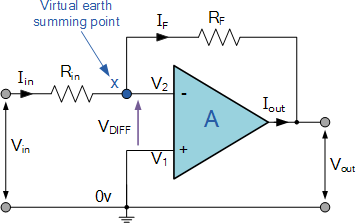
**CSE 3215**

**Quiz 3 (Section A2)**

**Time: 20 minutes**

**Marks: 10**

* 1. Derive the formula of an inverting amplifier. (2)
  2. (3)

For the above figure, let RF = 200 kΩ, Rin = 10 kΩ and Vin = 2V. Calculate I, Av, and Vo.

* 1. A DAC is showing 4.2V output for the input code 101010. Calculate the LSB and Reference voltage if it operates within 2V to 12V. (2)
  2. Describe the process of Data Acquisition System. (3)