ANS 1

ADC—

1. Read value from potentiometer into ADC
2. When conversion is completed, we will generate an interrupt, we will take the value of ADC and display on LCD

ANS 2:

1. Smallest change in input voltage detected by LPC2378 ADC (Resolution),
   1. R = Vref / 2n
   2. R = 3.3 V / 210
   3. R = 3.3 V / 1024
   4. **R = 0.0032226563 V** or **R = 3.2226563 mV**
2. Operating **fmax** of LPC2378 ADC = **4.5 Mhz**
3. Steps to program timer for 2 second delay:
   1. Step1
   2. Step2
   3. Step3
   4. Step 4