

Theory Assignment # 1

Instructions

- Due Date for Assignment is **26-02-2013**.
- No assignment will be accepted after the due date.
- You must complete your work **individually** and you are not allowed to **copy** your fellow student's work.
- Assignment must be completed on A4 page and must be **hand-written**.

Task

Write the assembly Level Codes for following tasks

1. Read data from port P2 and P3. Add data and display result on port P0. Glow LED connected at port pin P1.1 if carry flag set after addition. Draw a **diagram** which explains the circuit.
2. Read data from port P2 and P3. Multiply data and display result on port P0 and P1 **Do not** use multiply instruction.
3. Use **Indexed addressing mode** to show the HEX count from 0-F on Seven Segment. Store the HEX conversions in ROM and use them in lookup table fashion. Draw a **diagram** which explains the circuit.