

# Tutorial 5

## Instruction Encoding

CO 2103 Assembly Language

# Instruction Encoding

- **Task 1:** Referring to the Intel 8086 datasheet, determine the machine codes for the following instructions:
  - test bl, cl
  - mov ch, [1234h]
  - jz 1234h ;assume instruction at CS:1250h
  - add ax, bx
  - int 21h
- **Task 2:** Check your solution in Task 1 using Debug.

- 17B1:124A 84D9 TEST BL,CL
- 17B1:124C 8A2E3412 MOV CH,[1234]
- 17B1:1250 74E2 JZ 1234
- 17B1:1252 01D8 ADD AX,BX
- 17B1:1254 CD21 INT 21