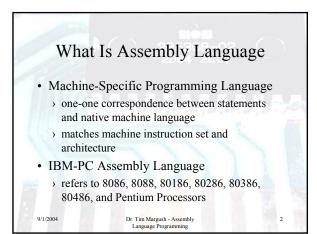
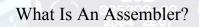
Babasa Ba





Systems Level Program

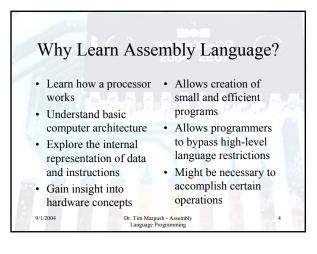
9/1/2004

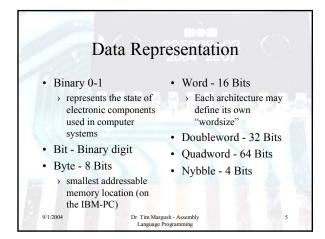
> translates assembly language source code to machine language

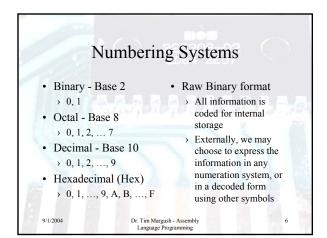
- object file contains machine instructions, initial data, and information used when loading the program
- listing file contains a record of the translation process, line numbers, addresses, generated code and data, and a symbol table

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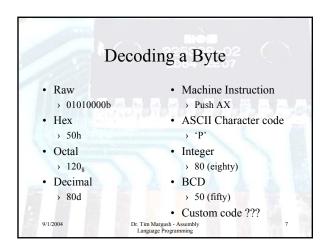




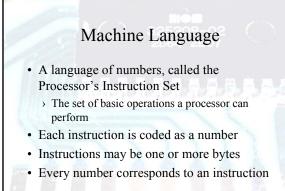












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IBM-PC Instruction Example • 1011000000000101b or B005h

- OpCode = 10110000b

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- > Copies a byte into AL (a register)
- > The byte is found in the second half of the instruction: 00000101b
- The Operation Code identifies the type of instruction and provides some information about the instruction length

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