

13 July 2020

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### Revision class for Microcontroller.

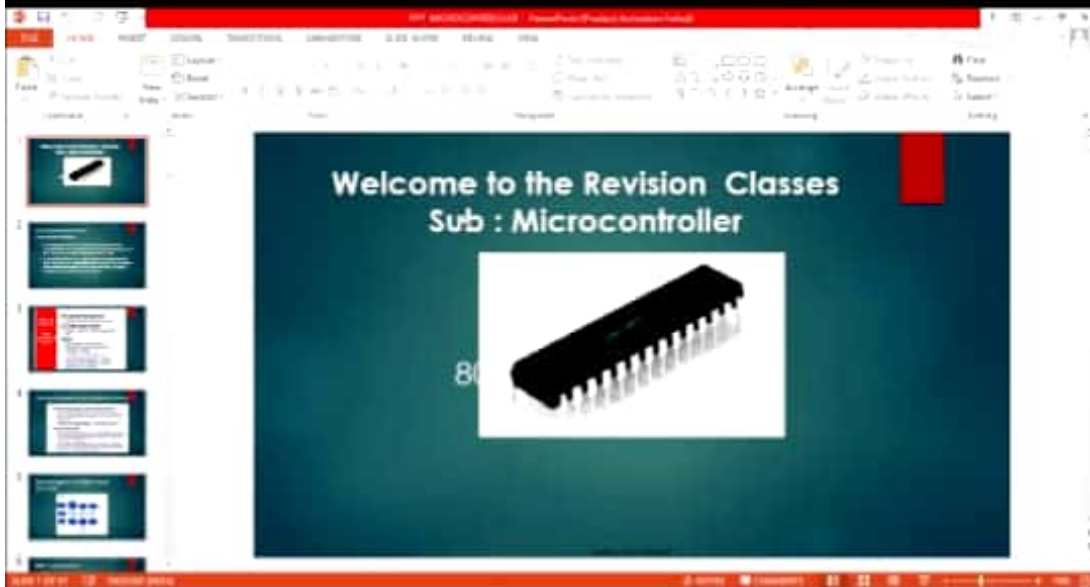
- \* A microprocessor is a computer processor that incorporates the function of a central processing unit on single integrated circuit (IC)
- \* A microcontroller is a single board micro computer that contains a micro processor along with memory associated circuits & that controls different functions of an electronic device
- \* CPU  
(execute information stored in memory)
- \* I/O devices  
(provide a mean of communicating with CPU)
- \* Memory
  - \* RAM  
temporary storage of programs that computer is running
  - \* ROM  
contain program essential to operation of the computer



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## Microprocessors and Microcontrollers

- ▶ A **microprocessor** is a computer processor that incorporates the functions of a central processing unit on a single (or more) integrated circuit (IC)
- ▶ A microcontroller is a single board microcomputer that contains a **microprocessor** along with memory and associated circuits and that controls different functions of an electronic device.



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## INSIDE THE COMPUTER

### Internal Organization of Computers

- **CPU (Central Processing Unit)**
  - Execute information stored in memory
- **I/O (Input/output) devices**
  - Provide a means of communicating with CPU
- **Memory**
  - RAM (Random Access Memory) – temporary storage of programs that computer is running
    - The data is lost when computer is off
  - ROM (Read Only Memory) – contains programs and information essential to operation of the computer



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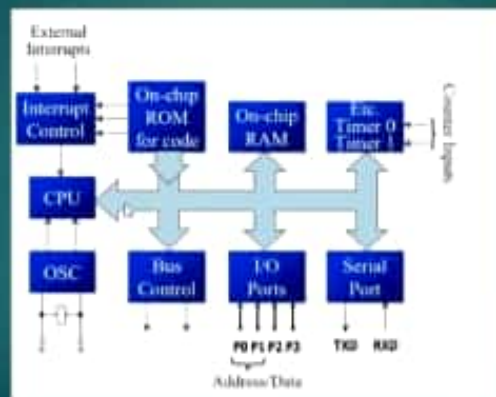




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## Block Diagram OF 8051 Micro controller



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