13 July 2020

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- Revision Classes On Microcontroller:

Today in Revision class on Microcontroller we learnt about.
- CPU [Central Processing Unit]
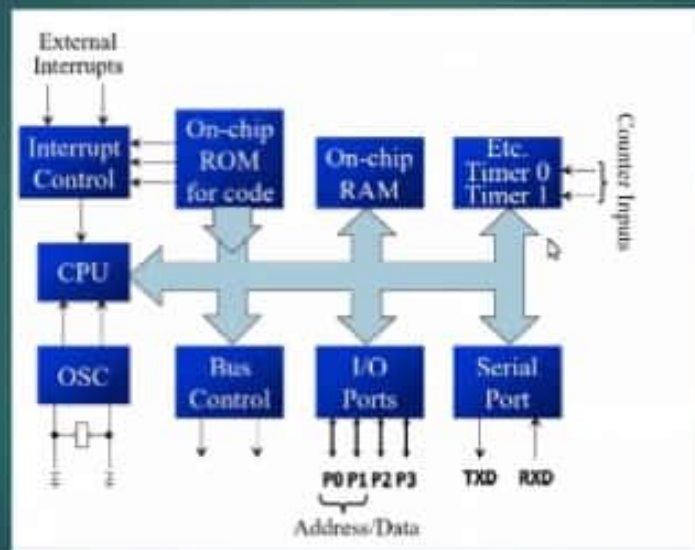- I/o [Input / O/T] devices.
- Memory
  → RAM (Random Access Memory) - temporary storage of programs that computer is running.
  → ROM (Read only Memory) - Contains programs and information essential to operation of the computer.

- Block Diagram of 8051 Microcontroller.
- 8051 Architecture:
- RAM and ROM.
- Registers: The CPU uses registers to store information temporarily.

- The most widely used register.
- Banks of 8051.
- Registers of 8051.
- Program counter.
- DATA Pointer - DPTR.
       - DPTR is a 16 bit register.
- The program status word (PSW)
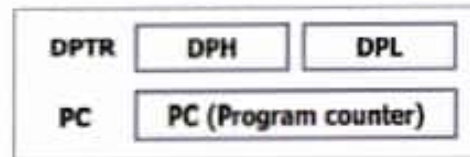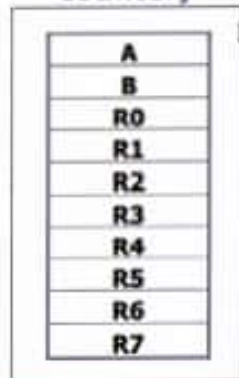- PIN diagram of 8051

Block Diagram OF 8051 Micro controller

INSIDE THE 8051

Registers (cont')

❑ **The most widely used registers**

➤ A (Accumulator)
  • For all arithmetic and logic instructions
➤ B, R0, R1, R2, R3, R4, R5, R6, R7
➤ DPTR (data pointer), and PC (program counter)

A
B
R0
R1
R2
R3
R4
R5
R6
R7

DPTR	DPH	DPL
PC	PC (Program counter)	

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- Coursera:

Introduction to Linear Algebra to mathematics

* Introduction : Solving data science.

Machine learning is a set of powerful mathematical tool that enable us, to represent, interpret, and control the complex world around us.
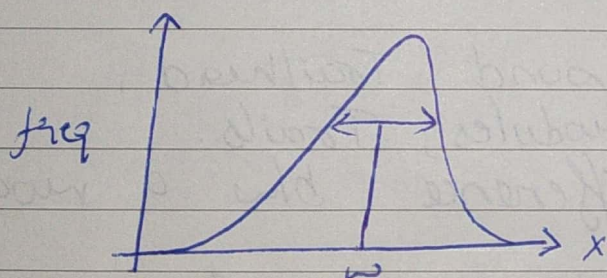
- About imperial college & the team.
- The relationship blw machine learning, Linear algebra, vectors.
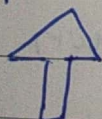
- Motivations for Linear algebra.

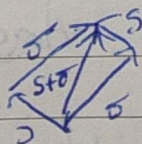$$2a + 3b = 8$$
$$10a + 1b = 12$$

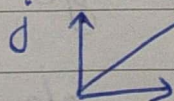- Getting a handle on vectors

freq

- Operations with vectors:

120 sqr
2
1
150,000

$s = \begin{bmatrix} -1 \\ 2 \end{bmatrix}$

$\begin{bmatrix} 3 \\ 2 \end{bmatrix} = \sigma$

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Salesforce :

Get started with trailhead.

- Explain what trailhead is & who it's for.

- Sign up for trailhead.
- Create a trailhead playground.

- Trailhead content blends a variety of content types is approach to career to all types of learners.
  - videos.
  - Code Samples.
  - Images.
  - Tables & charts.
  - Step by step instruction.

* find your way Around Trailhead.
  - Navigate units, modules, Trails.
  - Explain the difference b/w a module & project.
  - Explain how you earn points, badges, & ranks.

- Troubleshoot and Find Answers to common questions.
  - Know where to go if you need help with trailhead.
  - Understand the role of points, badges & ranks.