

# 'COMPUTER ARCHITECTURE & ORGANIZATION'

## General System Architecture

### 'STORE PROGRAM CONTROL CONCEPT'

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This topic i.e. 'Store Program Control' Concept refers that the Architecture of a system/ Computer which follow the Concept of Stored-program.

ENIAC: The first electronic computer built out of Vacuum tubes and relays based on **Stored program Concept** in which a Sequence of instructions i.e. the program is stored in memory for use by machine in processing Data.

ENIAC had a 'control board' on which the program were wired.

A Rewiring of the Control board was necessary for each Computation Sequence.

John Von Neumann: a member of the Eckert-Mauchly team (Developer of ENIAC), developed **EDVAC**,

the first Stored program computer.



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When the EDVAC was developed, at the same time

'EDSAC', the first Operational - Stored program machine, which also introduced the concept of primary & secondary memory Hierarchy.

The structure of EDVAC established the organization of the stored program computer (VON-Neumann Machine), which contains -

- 1) An Input Device through which data and instructions can be entered.
- 2) A Storage Unit into which results can be entered and from which instructions and data can be fetched.
- 3) An Arithmetic Unit to process data.
- 4) A Control Unit to fetch, interpret & execute the instruction from the storage.
- 5) An Output Device to deliver the results to the user.