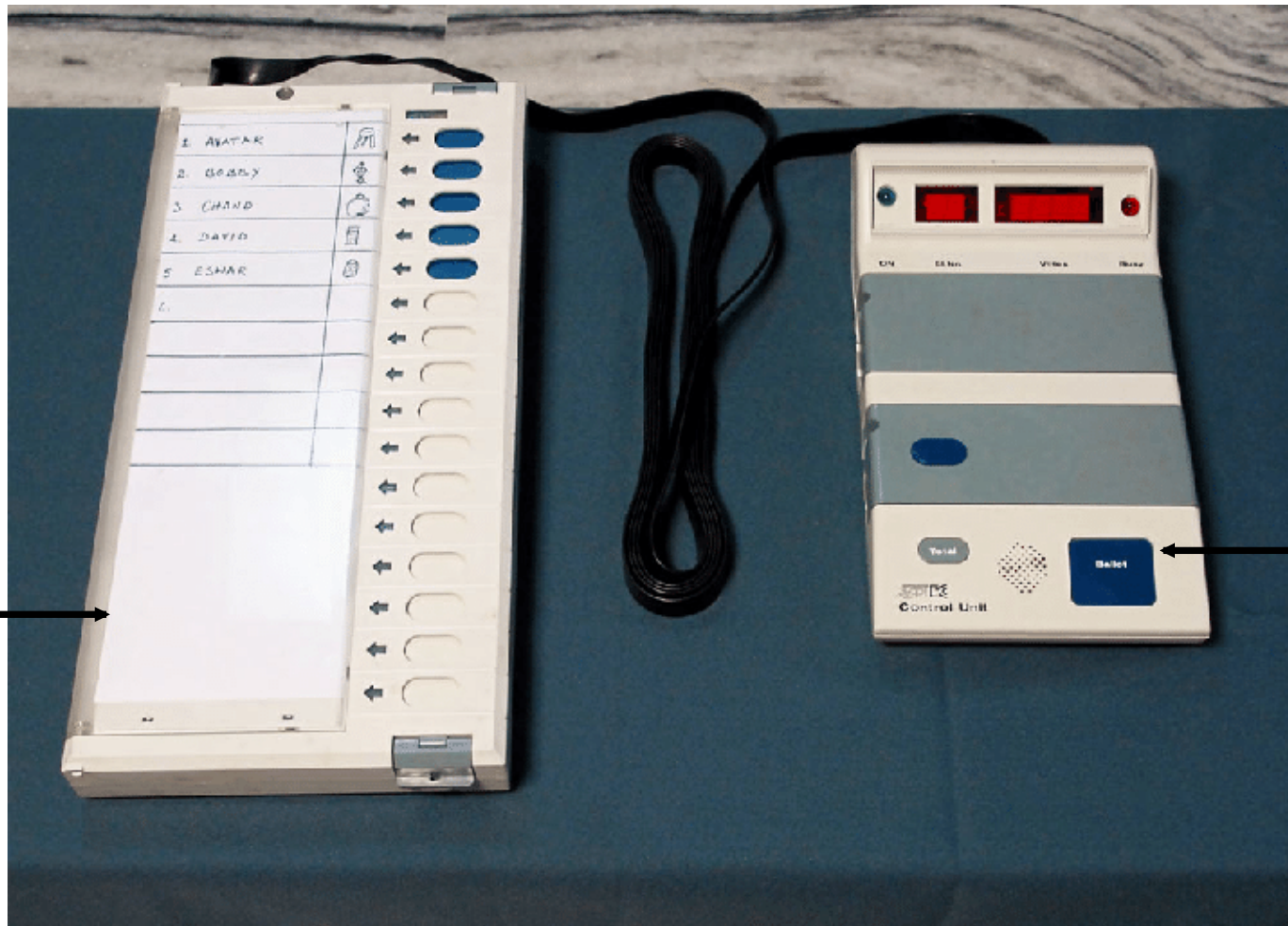# ELECTRONIC VOTING MACHINE (EVM)

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INTRODUCTION

- Electronic Voting Machine (also known as EVM) is voting using electronic means to either aid or take care of the chores of casting and counting votes.
- With the EVM , instead of issuing a ballot paper, the polling officer will press the Ballot Button which enables the voter to cast their vote.
- An EVM consists of two units, a control unit, and the balloting unit. The two units are joined by a five-meter cable. Balloting unit facilitates voting by a voter via labeled buttons while the control unit controls the ballot units, stores voting counts and displays the results on 7 segment LED displays
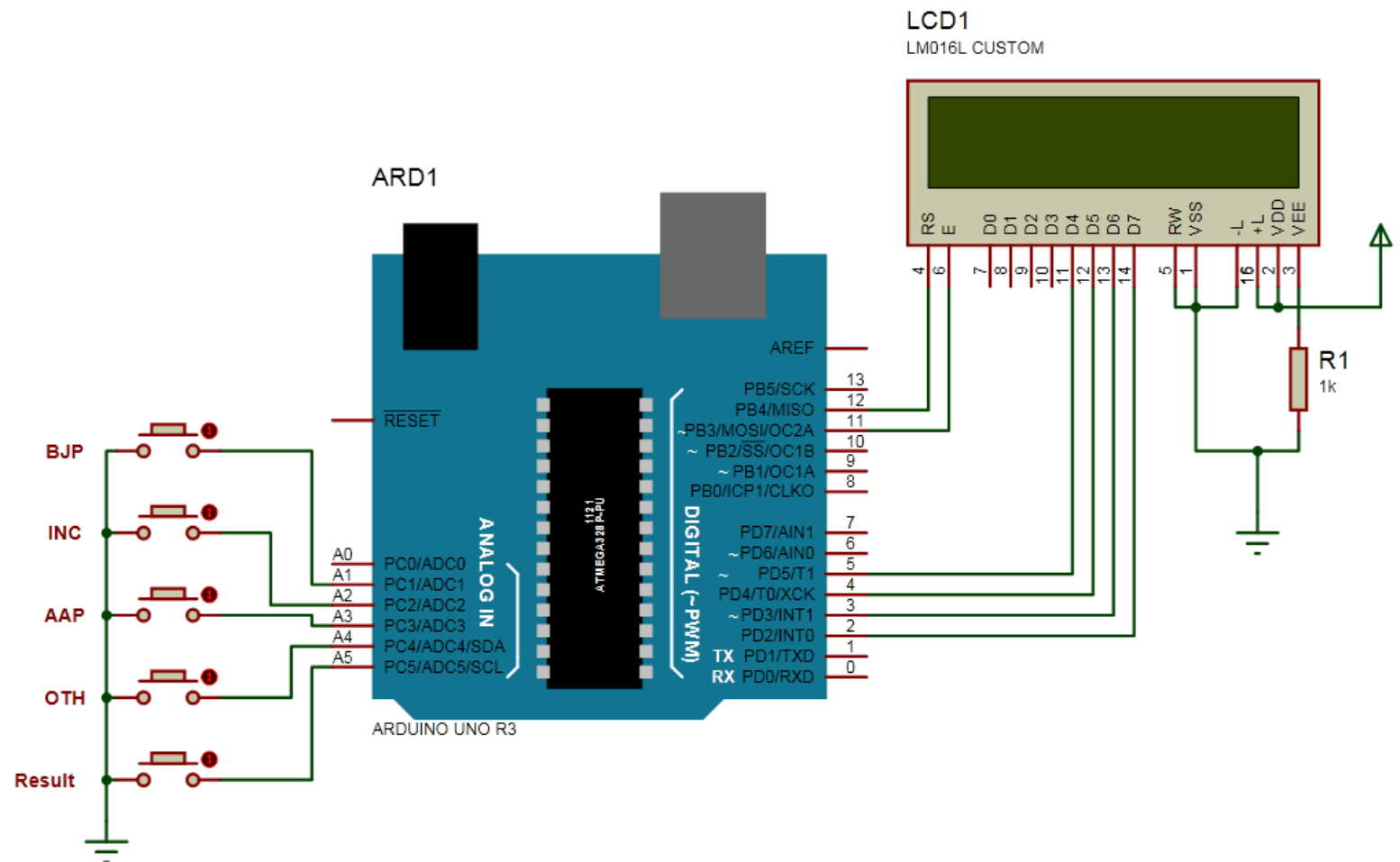
Electronic Voting Machine

Control Unit

Ballot Unit

Working of EVM

- The control unit and the balloting unit. These units are joined together by a cable.

- The control unit of the EVM is kept with the presiding officer or the polling officer. The balloting unit is kept within the voting compartment for electors to cast their votes.

- The polling officer will press the Ballot Button. A list of candidates names and/or symbols will be available on the machine The voter can press the button next to the candidate's name they wish to vote for.

Circuit Diagram

Advantages of EVM

- Saves a great deal of paper
- Saves the cost involved in printing, transporting, storing and distributing the ballot papers
- EVMs do not require electricity to function.
- EVMs have a very long shelf life (approx. 15 years)
- It is next to impossible to hack or tamper with EVMs.
- Can be used for simultaneous elections for Parliament and State Legislative Assembly.

Disadvantages of EVM

- ## Disadvantages
- It's hard to tamper with EVMs but not impossible.
- Software malfunction leading to inaccurate results.
- Security problems
- Vulnerability to hacking
- No means for voters to verify their votes

- ## Limitations
- If your preferred language is English, then you might face a little difficulty. The names of the candidates will be placed alphabetically in the respective language of the state.
- Each ballot unit can accommodate only 16 candidates. Therefore ballot units may be linked together to accommodate more.
- EVMs can record 3840 votes. Although, this number is not much of a limitation as the number of voters at a polling station is generally lower.

THANK YOU