

Electronic Voting Machine (EVM)

This is a simple Java-based console application that simulates an Electronic Voting Machine (EVM) for a parliamentary election. The program allows users to cast votes for a list of candidates, view the election results, and exit the system.

Features

1. Main Menu Options

- **Vote:** Cast a vote for one of the listed candidates or NOTA (None of the Above).
- **Calculate Result:** View the voting results after verifying with a captcha for added security.
- **Exit:** End the voting session and exit the program.

2. Voting Process

- Displays a list of five candidates and an option for NOTA.
- Users can cast their vote by entering the number corresponding to their chosen candidate.
- A confirmation message is displayed after a successful vote.
- Users can return to the main menu without casting a vote.

3. Secure Results Display with Captcha

- Before displaying the results, the program generates a 6-digit random captcha.
- Users must enter the captcha correctly to access the election results.
- If the captcha is incorrect, the system returns to the main menu with an error message.

4. Error Handling

- The system checks for valid inputs at each step and displays appropriate error messages for invalid selections.

Requirements

- **Java Runtime Environment (JRE)** installed.
- **Java Development Kit (JDK)** if running from source.

How to Use

1. Run the Program

- Compile and run the program in a Java IDE or from the command line.

2. Main Menu

- When the program starts, you'll see the main menu:
 - Enter 1 to cast a vote.
 - Enter 2 to view the results (requires captcha verification).
 - Enter 3 to exit the program.

3. Voting

- Select 1 to vote and view the list of candidates.
- Enter the number corresponding to your candidate (1-5) or choose 6 for NOTA.
- After voting, you'll receive a confirmation and can choose to return to the main menu.

4. Calculate Result

- Select 2 to calculate and display the election results.
- A 6-digit captcha will be shown; enter it correctly to view the results.
- If the captcha is incorrect, you'll be returned to the main menu.

5. Exit

- Select 3 to safely exit the program.

Example Output

Parliament Election 24-25

Enter choice :

1. Vote

2. Calculate Result

3. Exit

- Following the prompts, you can interact with the system to cast votes, check results, and exit as needed.

Notes

- The program currently supports only integer input for choices and votes.
- Votes can only be cast once per session for each candidate.
- Results are calculated and displayed after successful captcha verification for added security.