ONLINE VOTING SYSTEM

TEAM MEMBERS:

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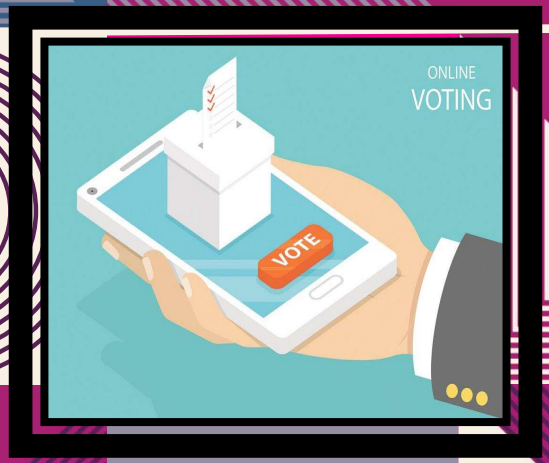
INTRODUCTION

- An online voting system is a digital platform that allows eligible voters to cast their votes for elections or decision-making processes using the internet and electronic devices, such as computers, smartphones, or tablets. It represents a modern and technologically advanced alternative to traditional paper-based voting methods. Online voting systems are designed to make the voting process more convenient, accessible, and efficient for voters while potentially reducing the administrative burden on election authorities.

OBJECTIVE



- **The primary objective of an online voting system is to modernize and optimize the electoral process by leveraging technology to increase voter participation, enhance accessibility, and improve the convenience of voting. It aims to reduce administrative burdens, lower costs, and minimize errors while ensuring the integrity and security of the voting process. Additionally, online voting systems seek to speed up the reporting of election results, promote inclusivity for individuals with disabilities, and offer flexibility for various types of elections, ultimately making the democratic process more efficient, eco-friendly, and responsive to the needs of an increasingly digital society.**

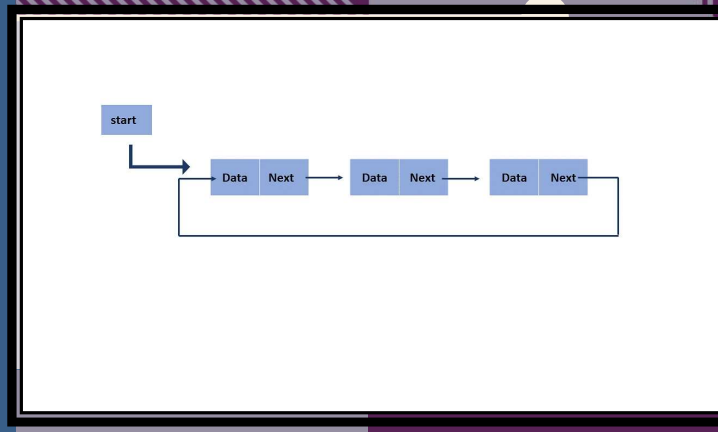
ADVANTAGES

- **Accessibility:** Online voting systems make it easier for people to participate in elections, particularly those who face physical or geographical barriers, such as individuals with disabilities, the elderly, or those living in remote areas. Voters can cast their ballots from anywhere with an internet connection, increasing overall participation.
- **Convenience:** Voters can participate in elections from the comfort of their homes or workplaces, eliminating the need to travel to physical polling stations. This convenience can lead to higher voter turnout, especially among younger and busier demographics.

- **Reduced Administrative Burden:** Online voting reduces the administrative workload associated with traditional paper-based elections. This includes printing, distributing, and storing physical ballots, as well as recruiting and training poll workers. It can save time and resources for election authorities.
- **Faster Results:** Online voting systems can provide real-time or faster results, as the counting process is automated. This rapid reporting of results can increase

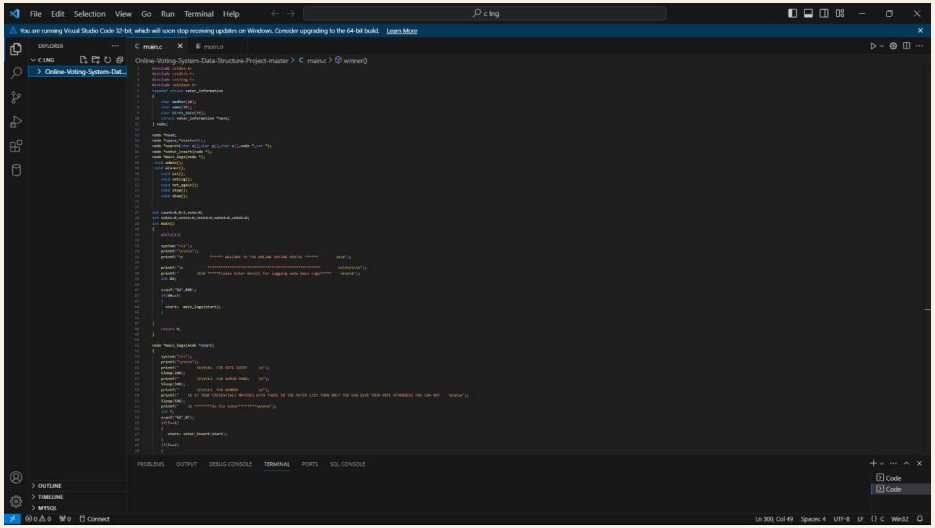
USAGE OF LINKED LISTS

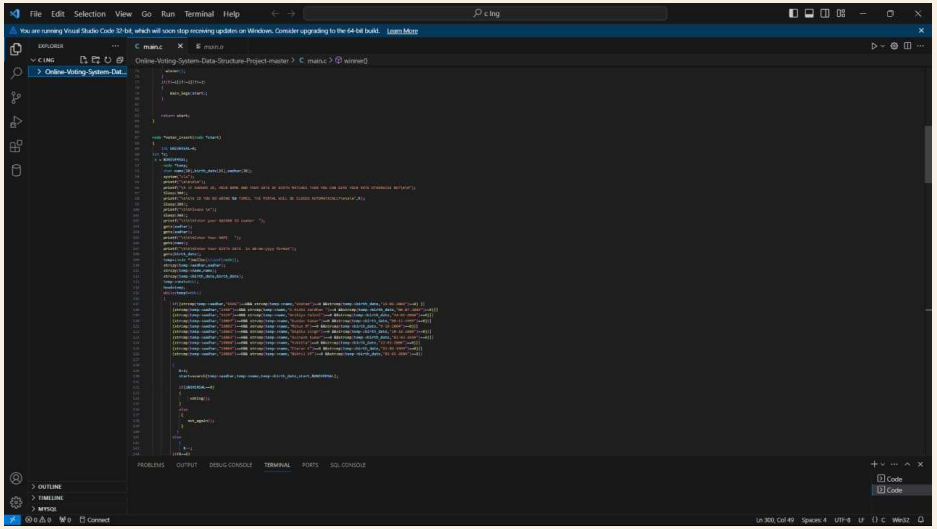
Linked lists are a flexible data structure that allows for dynamic management and efficient traversal of data, making them suitable for various aspects of an online voting system. However, it's important to ensure data security and integrity when implementing linked lists, especially in a system as sensitive as an online voting platform. Additionally, other data structures, databases, and encryption methods should be used to address the security and privacy requirements of an online voting system.



- **Voter Registration**
- **Candidates and Ballots**
- **Voting Records**
- **Candidate Rankings (Ranked Choice Voting**
- **Voting Session Management**

CODE IMPLEMENTATION





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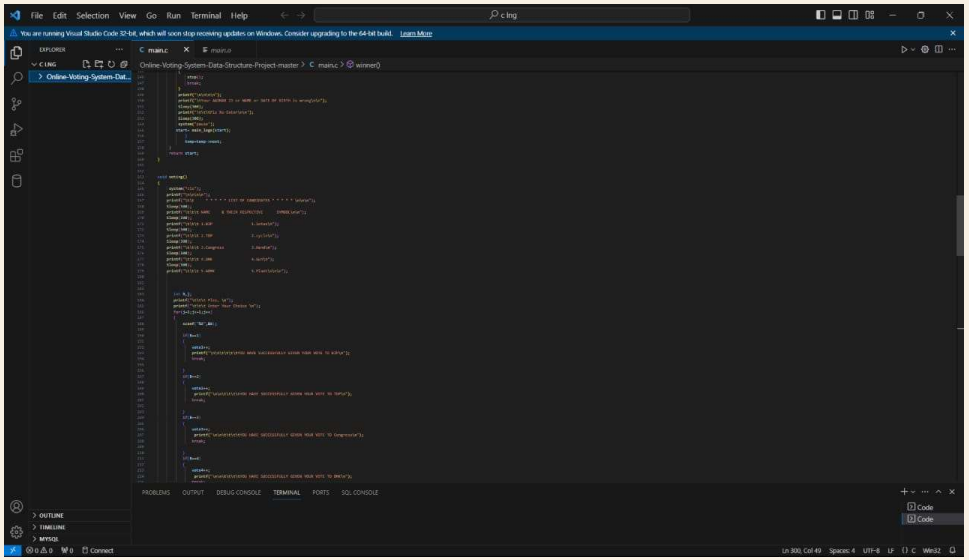

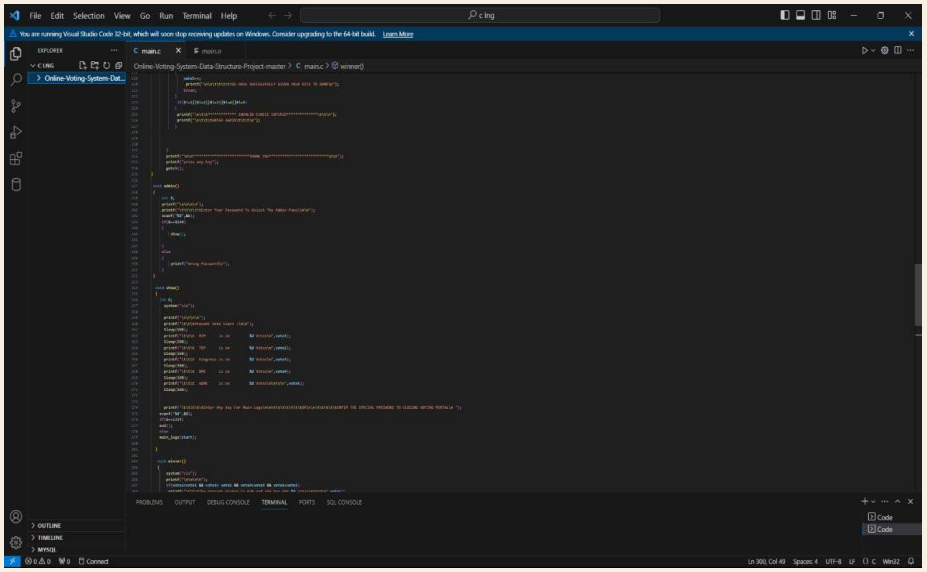

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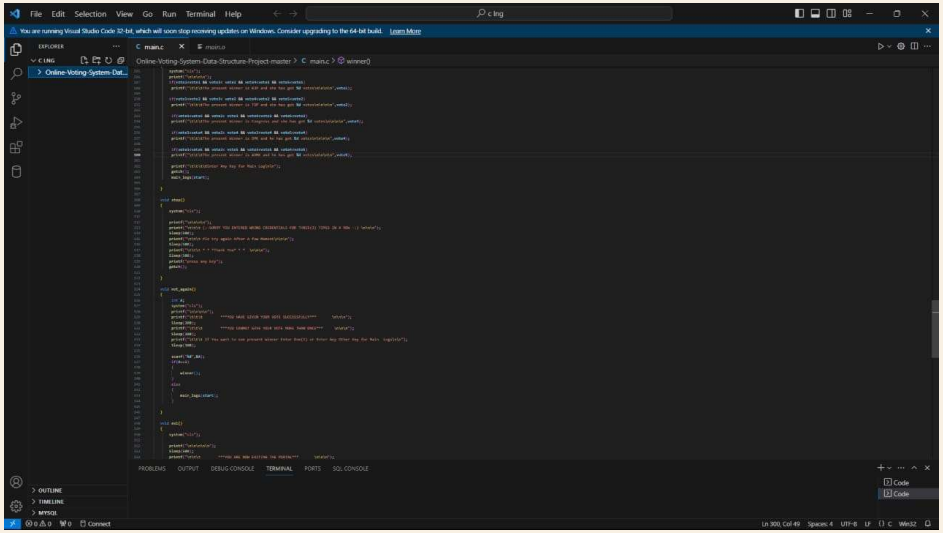

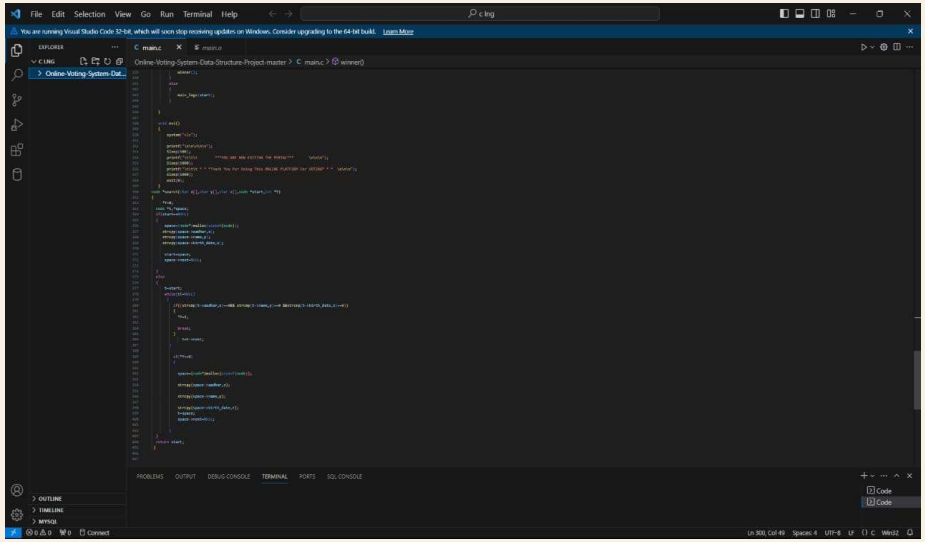

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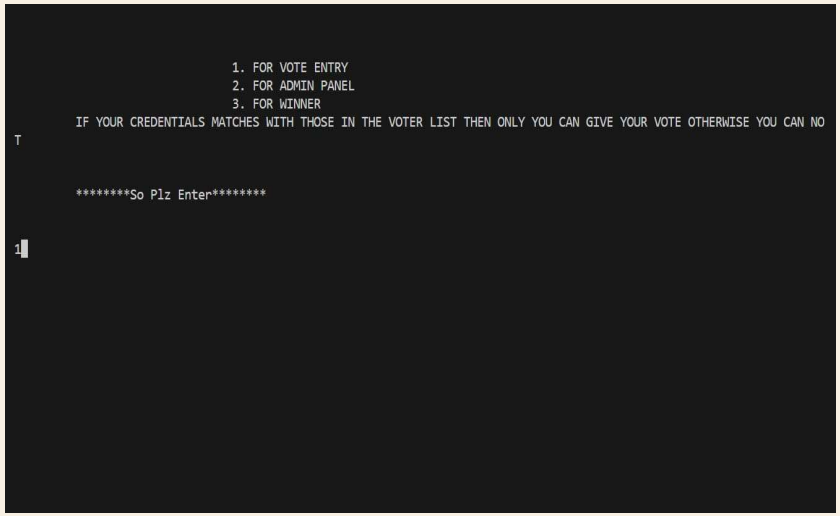

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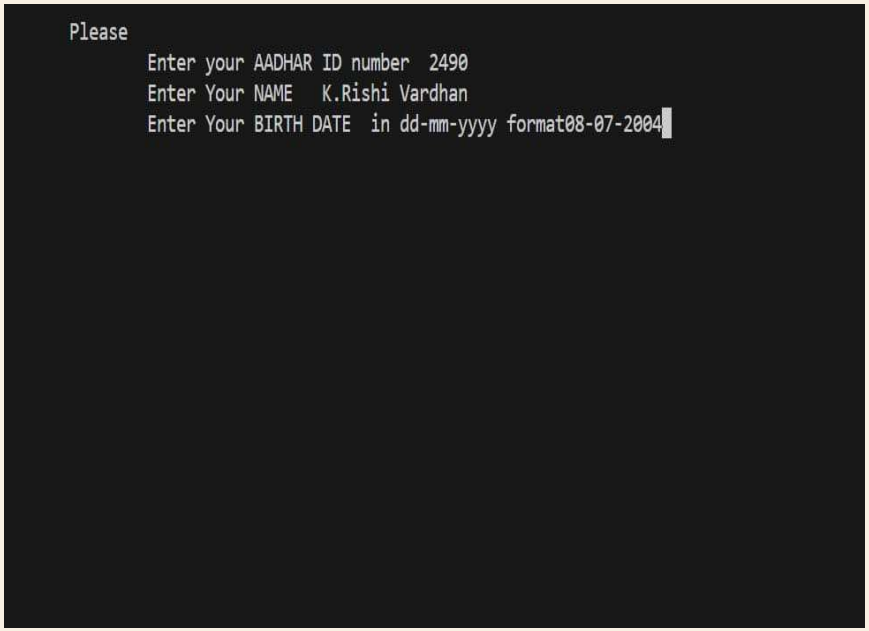

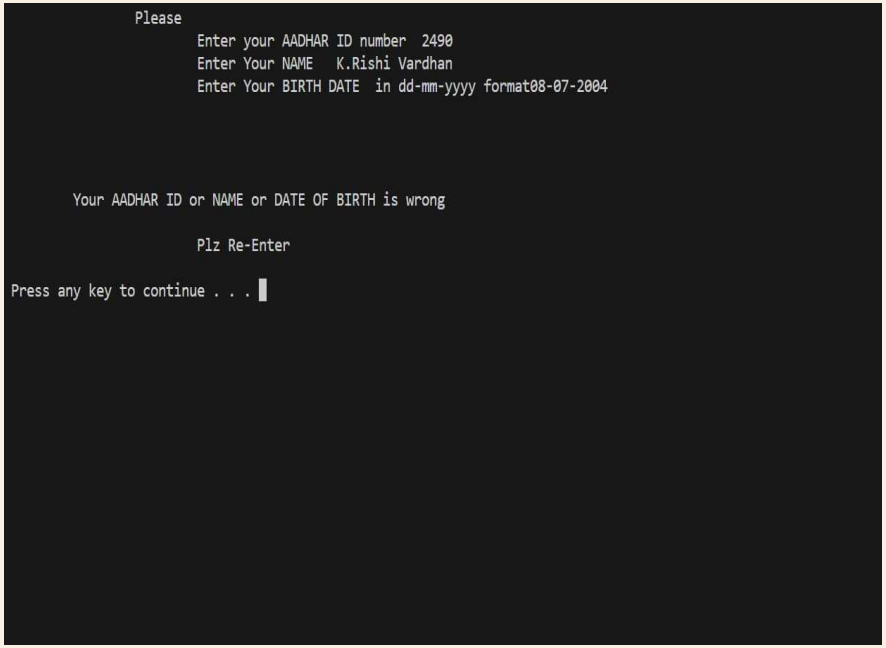

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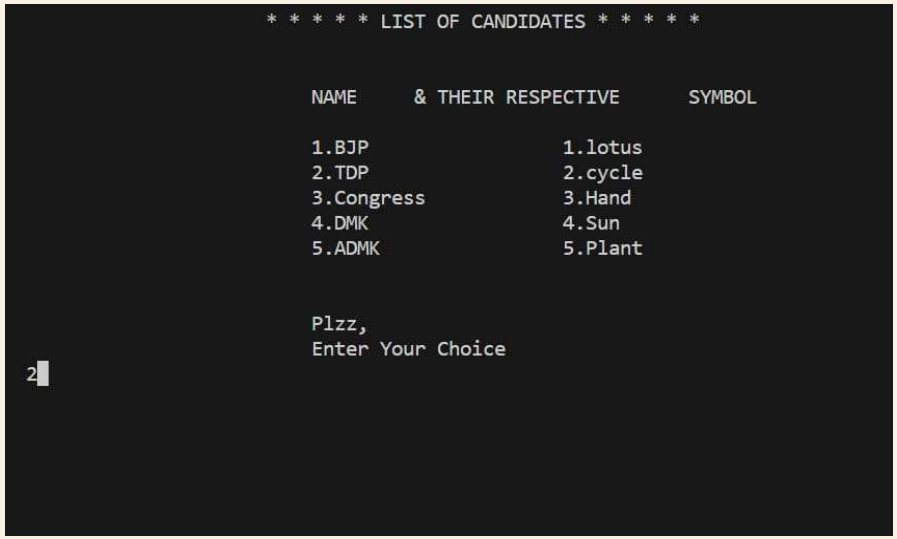

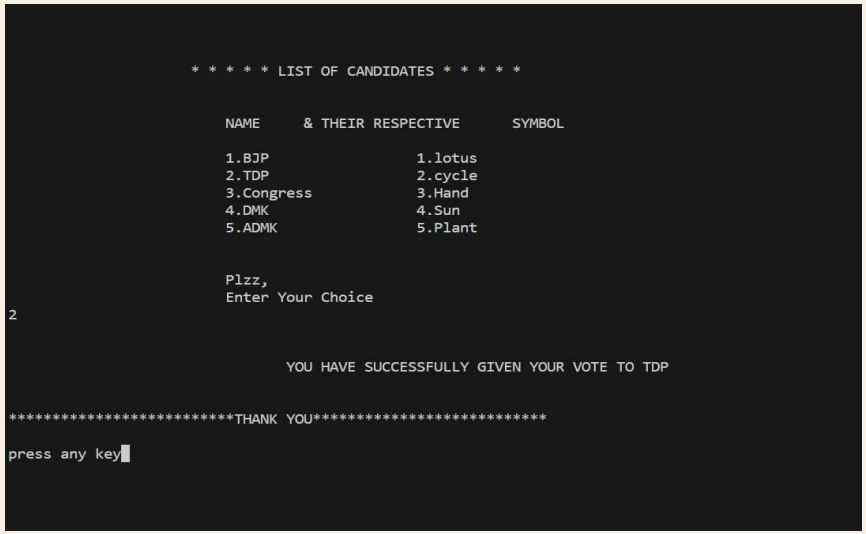

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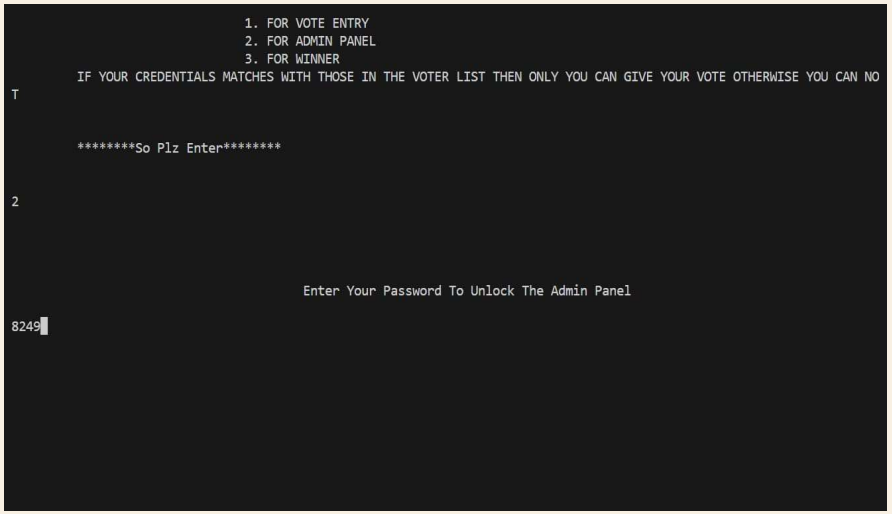

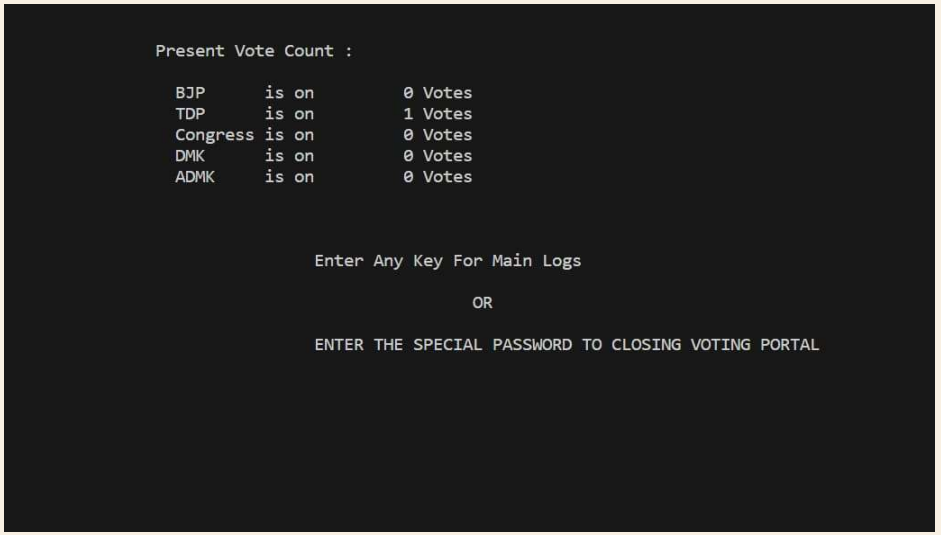

CONCLUSION

- In conclusion, the concept of an online voting system represents a significant advancement in the electoral process, offering numerous advantages in terms of accessibility, convenience, efficiency, and potential cost savings. These systems can greatly benefit modern societies by increasing voter participation, particularly among traditionally underrepresented demographics, and streamlining administrative processes. While online voting systems hold promise, they also pose challenges, especially concerning security, privacy, and regulatory compliance. Addressing these concerns through robust security measures, careful design, and adherence to legal frameworks is essential for the successful implementation of online voting. The future of online voting systems holds the potential to make democracy more accessible and responsive to the needs of an increasingly digital society, but it requires a balanced approach that prioritizes both convenience and security.