ONLINE VOTING SYSTEM

-Linked List

A PROJECT REPORT

Submitted by

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Under the guidance of

Dr. Praveena Akki

(Assistant Professor, Department of Networking and Communications,School of Computing)

in partial fulfillment of the requirements for the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

with specialization in Internet Of Things

DEPARTMENT OF NETWORKING AND COMMUNICATIONS

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY,

KATTANKULATHUR- 603 203

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BONAFIDE CERTIFICATE

Certified that 18CSP109L project report titled "**ONLINE VOTING SYSTEM-LINKED LIST**" is the bonafide work of ,"Rishi Vardhan [RA2211032010078],Arshiya Jaleel[RA2211032010083], Mitun M[RA2211032010090]", who carried out the project work under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form any other project report or dissertation on the basis of which a degree or award was conferred on an earlier

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INTERNAL EXAMINER	**EXTERNAL EXAMINER**

Annexure II

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OWN WORK DECLARATION

Degree/ Course: B.Tech/Computer Science Engineering with specialization in Cloud Computing

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Title of Work :

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Rishi Vardhan

Arshiya Jaleel

Mitun

CONTENTS

ABSTRACT

The provided C language code demonstrates an online voting portal system implemented using linked lists. The system allows users to vote for their preferred candidates after validating their identity. The main features of the code are as follows:

1. **Voter Verification:** The system verifies a voter's identity based on their Aadhar ID, name, and date of birth. The voter has three attempts to enter the correct credentials, after which the system closes.
2. **Admin Panel:** An admin panel is accessible with a password, allowing administrators to view the current vote counts.
3. **Voting:** Once a voter's identity is confirmed, they can cast their vote for one of the listed candidates: BJP, TDP, Congress, DMK, or ADMK. The code maintains and updates the vote counts for each candidate.
4. **Winner Determination:** The system can determine and display the candidate with the most votes, declaring them the winner.
5. **Exit Function:** Users have the option to exit the voting portal.

The code uses a linked list to store voter information and verify their identity, ensuring that each voter can only cast one vote.

This online voting system is a simple implementation for educational purposes, showcasing user authentication, voting, and result determination.

WORKING

1. Welcome to the Online Voting Portal:

- The code begins with a welcome message, introducing users to the online voting portal. Users can initiate various actions, and the primary focus is on maintaining a secure and efficient voting process.

2. Main Logs:

- Users can select the "Main Logs" option by entering '1'. This functionality serves as the entry point for voters. It presents several options for them.

3. Voter Insertion:

- After selecting "Main Logs," voters are prompted to verify their identity. This is a crucial step to ensure that only eligible voters participate. Users are asked to provide their Aadhar ID, name, and date of birth. If this information matches the voter list, they proceed to cast their vote.

4. Voter Authentication:

- The code verifies voter identities using a linked list. Only if the provided details match the stored information can users proceed to vote. If incorrect details are entered multiple times, the portal automatically closes for security.

5. Voting:

- Once a voter's identity is confirmed, they can choose their preferred candidate from a list of options. The code updates and maintains vote counts for each

candidate, ensuring the accuracy of the voting process.

6. Admin Panel:

- The system features an "Admin Panel" accessible through a password. This panel allows administrators to view the current vote counts for each candidate, ensuring transparency and monitoring of the election process.

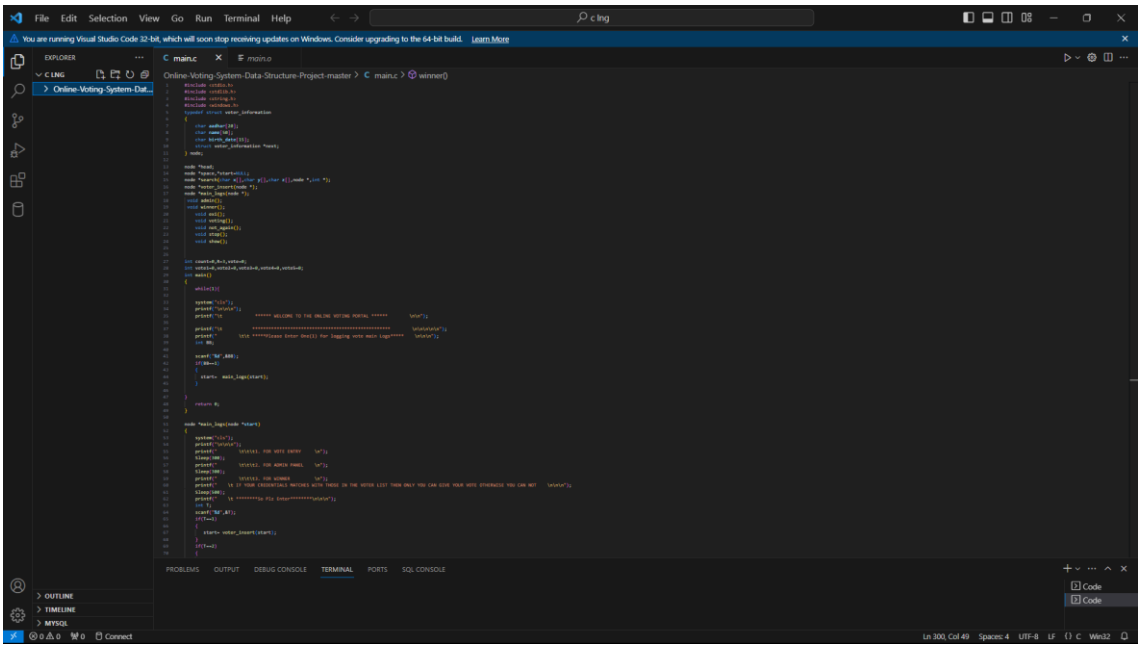
7. Winner Determination:

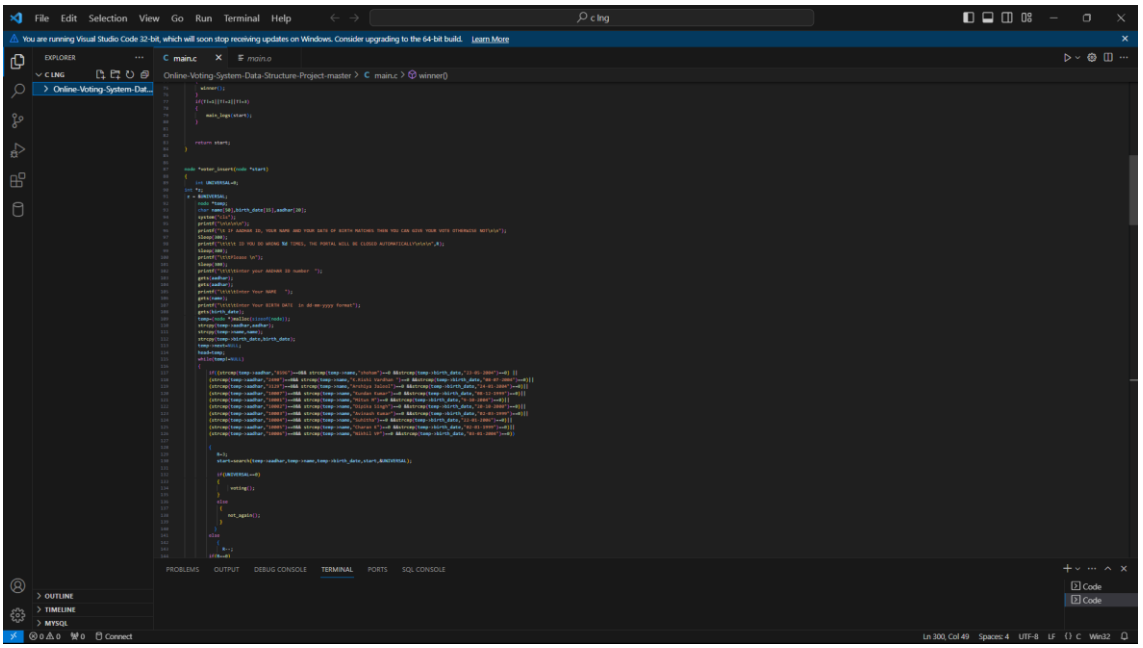
- The code includes functionality to determine the winning candidate based on the total votes. It announces the candidate with the most votes as the winner of the election.

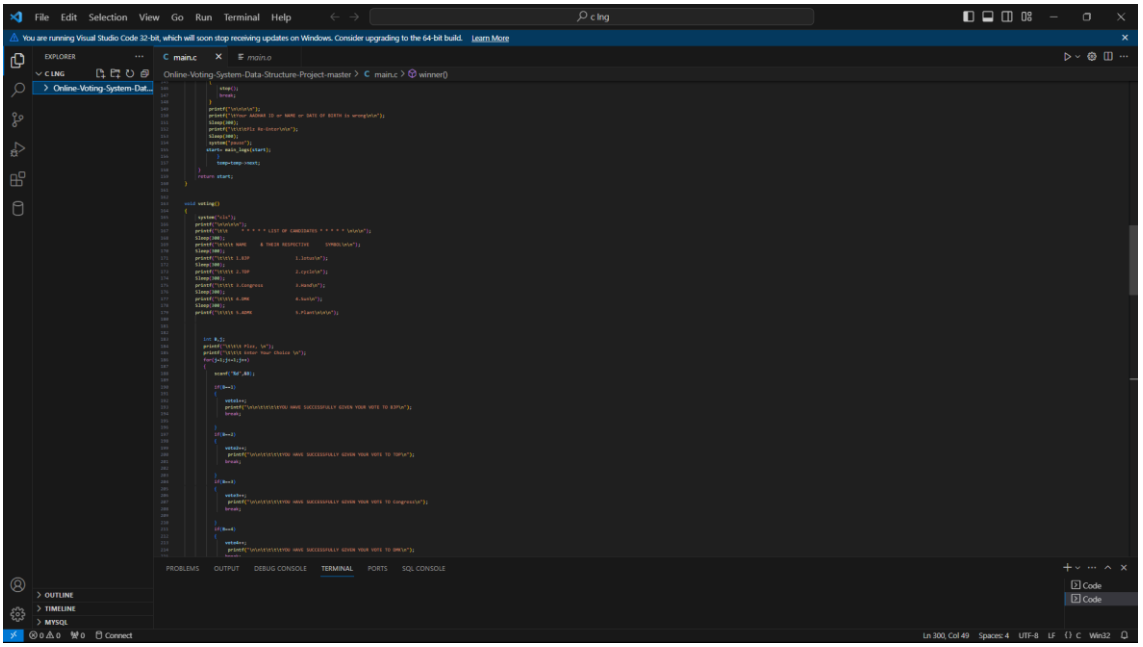
8. Exit Function:

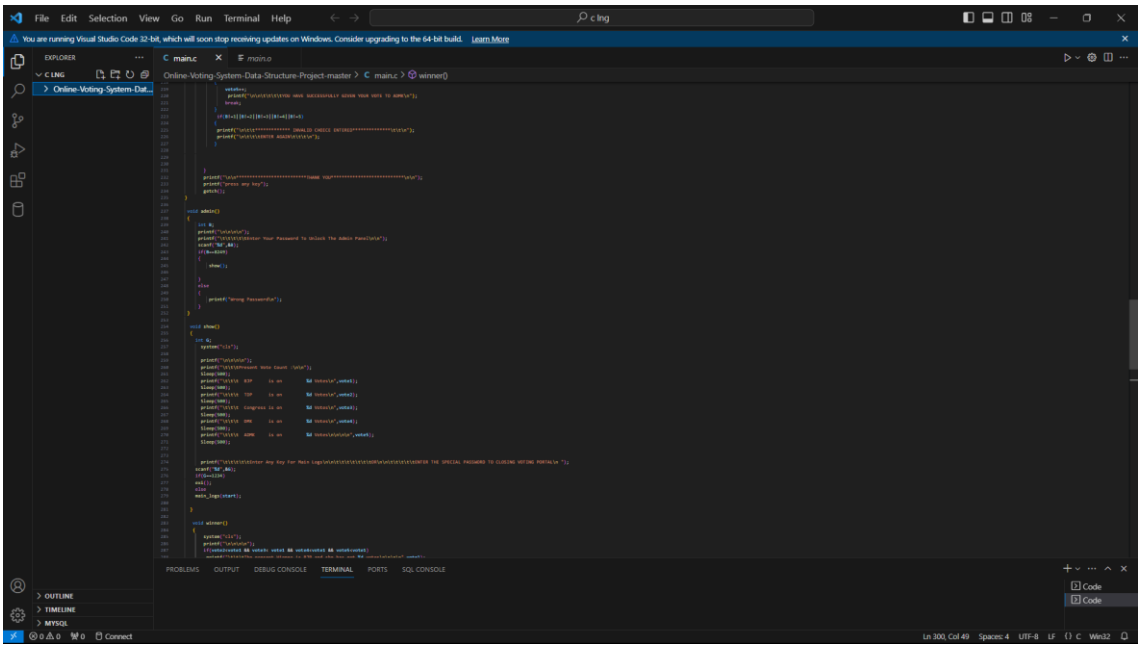
- Users have the option to exit the voting portal gracefully. This function ensures a smooth and secure closure of the system.

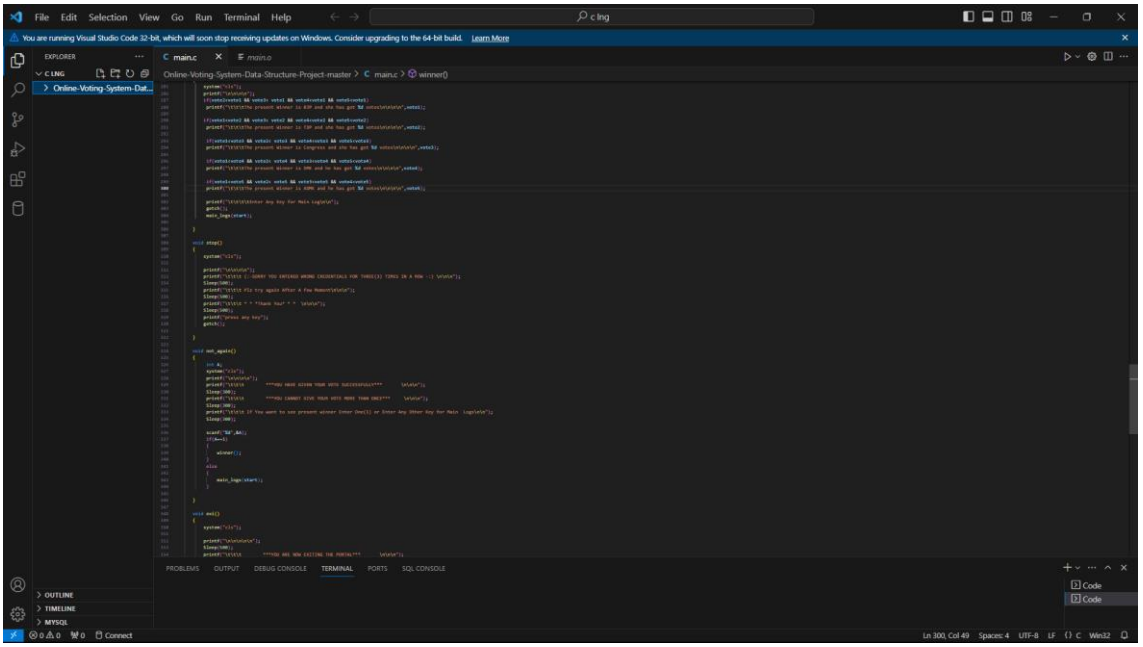
CODE IMPLEMENTATION

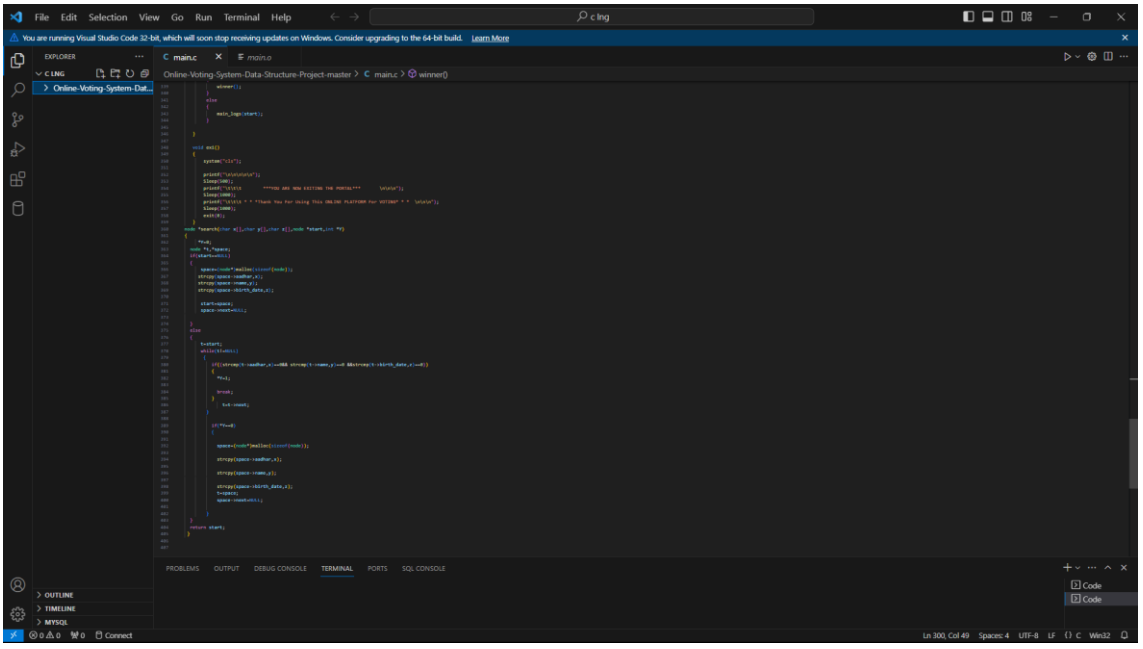




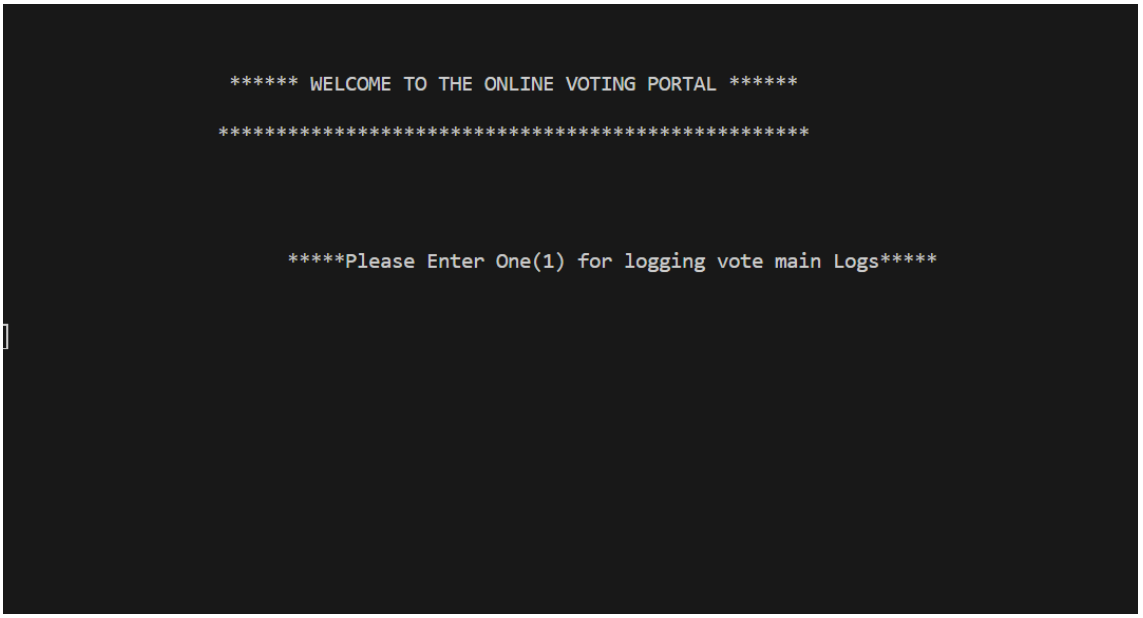


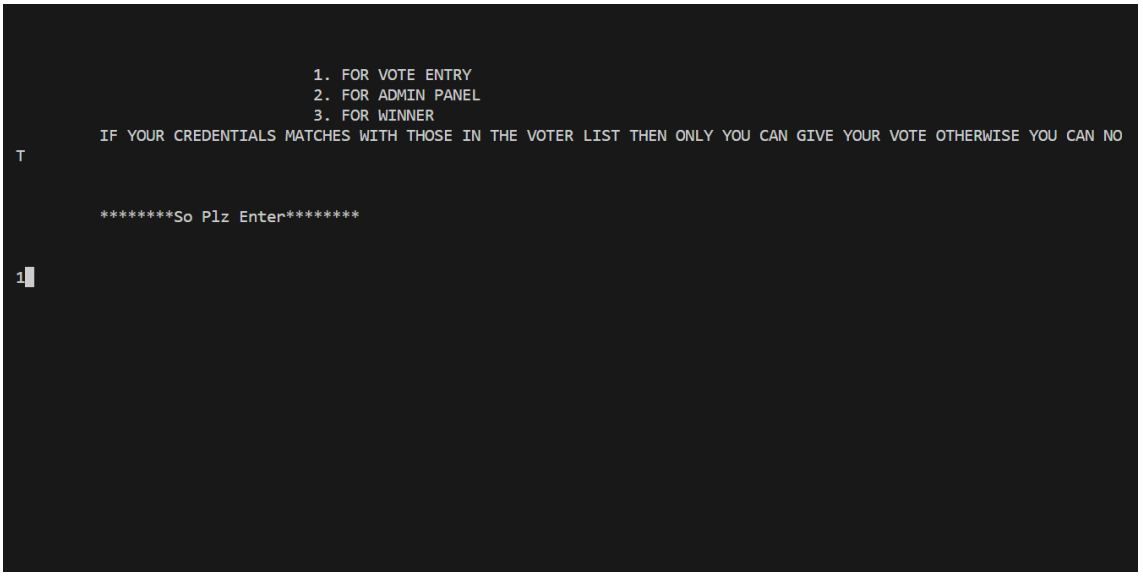






RESULTS


****** WELCOME TO THE ONLINE VOTING PORTAL ******
*****Please Enter One(1) for logging vote main Logs*****


1. FOR VOTE ENTRY
2. FOR ADMIN PANEL
3. FOR WINNER
IF YOUR CREDENTIALS MATCHES WITH THOSE IN THE VOTER LIST THEN ONLY YOU CAN GIVE YOUR VOTE OTHERWISE YOU CAN NO
T
********So Plz Enter********
1

```
      Please
               Enter your AADHAR ID number  2490
               Enter Your NAME   K.Rishi Vardhan
               Enter Your BIRTH DATE  in dd-mm-yyyy format08-07-2004
```

```
               Please
                      Enter your AADHAR ID number  2490
                      Enter Your NAME   K.Rishi Vardhan
                      Enter Your BIRTH DATE  in dd-mm-yyyy format08-07-2004


      Your AADHAR ID or NAME or DATE OF BIRTH is wrong

                      Plz Re-Enter

Press any key to continue . . .
```

```
  IF AADHAR ID, YOUR NAME AND YOUR DATE OF BIRTH MATCHES THEN YOU CAN GIVE YOUR VOTE OTHERWISE NOT

               ID YOU DO WRONG 3 TIMES, THE PORTAL WILL BE CLOSED AUTOMATICALLY


        Please
               Enter your AADHAR ID number  10004
               Enter Your NAME   Suhitha
               Enter Your BIRTH DATE  in dd-mm-yyyy format22-01-2006
```

```
                    * * * * * LIST OF CANDIDATES * * * * *


                        NAME     & THEIR RESPECTIVE      SYMBOL

                        1.BJP                 1.lotus
                        2.TDP                 2.cycle
                        3.Congress            3.Hand
                        4.DMK                 4.Sun
                        5.ADMK                5.Plant


                        Plzz,
                        Enter Your Choice
 2
```

```
                * * * * * LIST OF CANDIDATES * * * * *


                    NAME     & THEIR RESPECTIVE      SYMBOL

                    1.BJP                 1.lotus
                    2.TDP                 2.cycle
                    3.Congress            3.Hand
                    4.DMK                 4.Sun
                    5.ADMK                5.Plant


                    Plzz,
                    Enter Your Choice
2


                          YOU HAVE SUCCESSFULLY GIVEN YOUR VOTE TO TDP

************************THANK YOU**************************

press any key
```

```
                    The present Winner is TDP and she has got 1 votes


                            Enter Any Key for Main Log
```

```
                              1. FOR VOTE ENTRY
                              2. FOR ADMIN PANEL
                              3. FOR WINNER
          IF YOUR CREDENTIALS MATCHES WITH THOSE IN THE VOTER LIST THEN ONLY YOU CAN GIVE YOUR VOTE OTHERWISE YOU CAN NO
T


          ********So Plz Enter********


2



                                    Enter Your Password To Unlock The Admin Panel

8249
```

```
                Present Vote Count :

                  BJP      is on         0 Votes
                  TDP      is on         1 Votes
                  Congress is on         0 Votes
                  DMK      is on         0 Votes
                  ADMK     is on         0 Votes


                              Enter Any Key For Main Logs

                                           OR

                              ENTER THE SPECIAL PASSWORD TO CLOSING VOTING PORTAL
```

CONCLUSION

The provided C code showcases a basic implementation of an online voting system with voter authentication, voting, result determination, and administrative features. While this code serves as a simple educational example, it can be expanded upon to create a more comprehensive and secure online voting platform for various applications.

FUTURE APPLICATION

The code provided, which implements a basic online voting portal, can serve as a foundation for more advanced and secure online voting systems with a wide range of potential future applications. Here are some future applications and use cases for this code:

1. **Elections and Voting Systems:**
    - The code can be extended and enhanced to create online voting systems for various types of elections, including national, regional, or organizational elections. It could be used for government elections, student council elections, or corporate board elections.
2. **Student Council Elections:**
    - Educational institutions can utilize this code to conduct student council elections, making the voting process more convenient and accessible for students.
3. **Corporate Decision-Making:**

- Companies can implement online voting systems for making important decisions or selecting representatives. Shareholders can cast their votes electronically in annual general meetings.

4. **Board of Directors Elections:**
    - Organizations and nonprofits can use the code for board of directors' elections, allowing members to vote for their preferred candidates remotely.
5. **Opinion Polls and Surveys:**
    - The code can be repurposed to conduct opinion polls and surveys on various topics, providing valuable data for market research, public opinion, and decision-making.