CLEAN START TEST

Follow these steps to verify that the system works correctly from a fresh start.

1. Delete Existing Data

- Remove **all `.txt` files** from the program directory
  (voters.txt, candidates.txt, blockchain.txt, etc.)

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2. Launch the Program

Start the application with a clean environment.

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3. Add Candidates

Enter the following candidate names:

- **Alice**
- **Bob**
- **Charlie**

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4. Register Voters

Register the following voter IDs:

- **201**, **202**, **203**, **204**, **205**

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5. Cast Votes

Record votes using the voter IDs:

Voter ID	Vote For
201	Alice
202	Alice
203	Bob
204	Charlie
205	Alice

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6. Display Results

Expected Output:

- Alice: **3**
- Bob: **1**
- Charlie: **1**
  ✓ *Correct vote count*

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7. Verify Blockchain

Expected Output:
“All 5 blocks valid”
✓ *No tampering detected*

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8. Exit the Program

Close the application normally.

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9. Restart the Program

Open the application again to check persistence from blockchain reconstruction.

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10. Display Results Immediately

Expected Output:

- Alice: **3**
- Bob: **1**
- Charlie: **1**
  ✓ *(Values correctly recalculated from blockchain)*

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11. Attempt Re-Voting

Try voting again with voter **201**.

Expected Output:
"You have already voted"
✓ *Double-voting is blocked*

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12. Search for Block #3

Use the block-search feature to look up **block 3**.

Expected Output:
Displays the stored details of **Block #2**
✓ *Correct linked-chain behavior*

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13. Export Blockchain

Use the export option.

Expected Result:
Creates a file named `blockchain_export.txt`
✓ *Blockchain exported successfully*