Project 25: Squirrel Data Analysis

Description

This project involves analyzing squirrel data from a CSV file. The data contains information about squirrels observed in Central Park. The analysis includes counting the number of squirrels by fur color and creating a new CSV file to store these counts.

Key Technologies

- **Python:** Used for reading the CSV file, performing data analysis, and writing the results to a new CSV file.
- **Pandas Library:** Utilized for data manipulation, including reading from and writing to CSV files, and performing data aggregation.
- **Concepts Covered:** Data cleaning, filtering, and aggregation.
- **Unique Features:** Analyzes and counts squirrel observations based on fur color and generates a summary report in CSV format.

India State Game

Description

This project is an interactive game that challenges users to name all the states of India. Using the Turtle graphics library and data from a CSV file, the game provides a visual representation of the states and allows users to input their guesses. Correct guesses are displayed on the map, and missing states are saved to a CSV file for later review.

Key Technologies

- **Python:** Used for implementing the game logic and handling user input and graphics.
- **Turtle Graphics Library:** Utilized for displaying the map of India and drawing state names.
- **Pandas Library:** Used for reading the CSV file containing state data and saving missing states to a new CSV file.
- **Concepts Covered:** Data handling with Pandas, graphical user interface with Turtle, and interactive user input.
- **Unique Features:** Allows users to guess state names on a map and tracks correct guesses, providing feedback and storing data for missed states.