

Streamlit Practice questions

Beginner Level:

1. **Hello Streamlit,**

Write a Streamlit app that displays the text “*Welcome to Streamlit*” using a title and a sub header.

2. **User Input**

Create a Streamlit app that takes a user’s name as input and displays a personalized greeting.

3. **Simple Calculator**

Build a Streamlit app that accepts two numbers and displays their sum, difference, product, and quotient.

4. **Button Interaction**

Write a program where clicking a button displays a random motivational quote.

5. **Text Length Counter**

Create an app that takes text input from the user and displays the total number of characters and words.

Intermediate Level:

6. **Even or Odd Checker**

Create a Streamlit app that checks whether a given number is even or odd.

7. **Number Guessing Game**

Create a simple number guessing game using Streamlit where the user guesses a randomly generated number.

8. **Temperature Converter**

Build an app that converts temperatures between Celsius and Fahrenheit using radio buttons.

9. **Form Submission**

Create a Streamlit form that collects user details (name, age, email) and displays them after submission.

Intermediate–Advanced Level:

11. CSV File Uploader

Build a Streamlit app that allows users to upload a CSV file and displays its first 10 rows.

12. Data Statistics Viewer

Create an app that uploads a dataset and displays mean, median, and standard deviation for numeric columns.

13. Line Chart Visualization

Build a Streamlit app that generates a line chart from user-provided numeric data.

14. Filter Data App

Create an app that loads a dataset and allows users to filter rows using a slider or dropdown.

15. To-Do List App

Build a simple to-do list app where users can add and remove tasks.

Advanced Level

16. Session State Counter

Create a Streamlit app that maintains a counter using `st.session_state` and increments it on button clicks.

17. Authentication System

Build a basic login system using Streamlit with predefined usernames and passwords.

18. Caching Optimization

Create an app that loads a large dataset and optimizes performance using `@st.cache_data`.

19. Dashboard Application

Build a Streamlit dashboard that displays KPIs, charts, and filters from a dataset.

20. Machine Learning Predictor

Create a Streamlit app that loads a trained ML model and predicts an output based on user input.