**THỰC HÀNH BUỔI 5**

**Lab 7: Streamlit**

Code python:

import streamlit as st

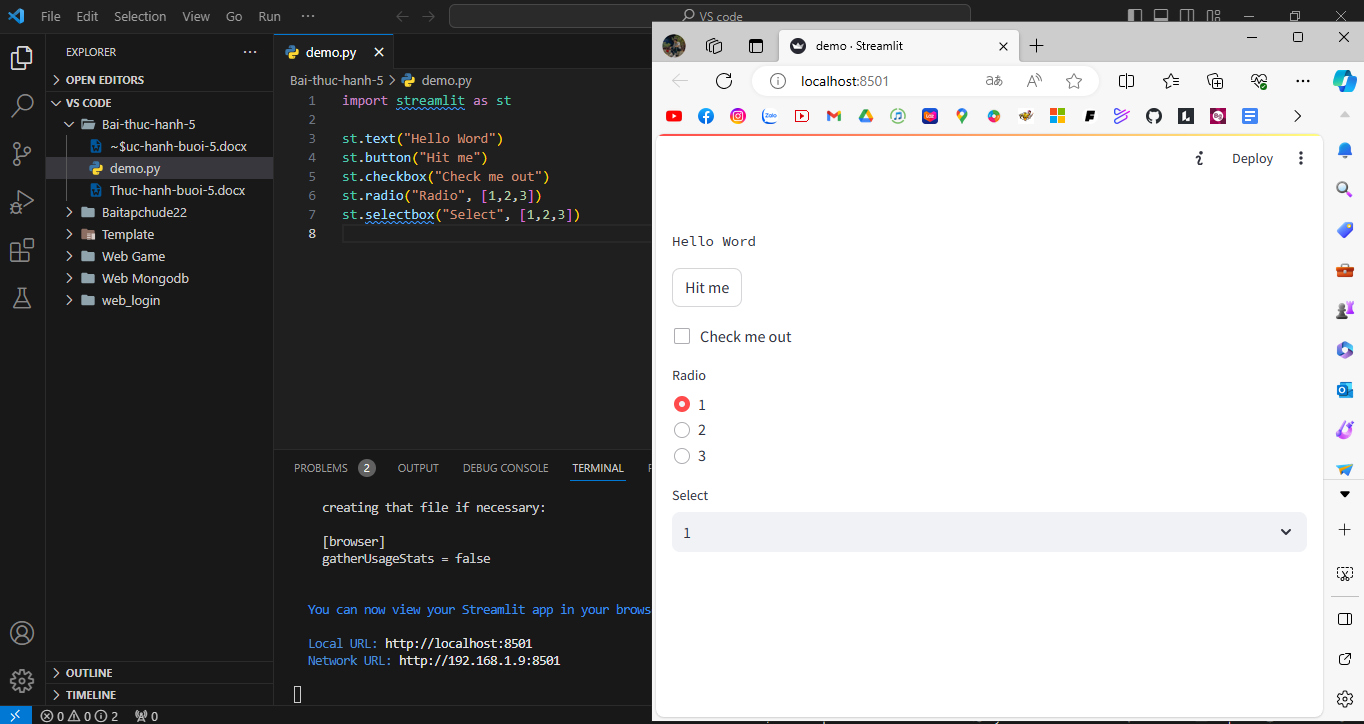
st.text("Hello Word")

st.button("Hit me")

st.checkbox("Check me out")

st.radio("Radio", [1,2,3])

st.selectbox("Select", [1,2,3])



**Streamlit run app.py**

Code python:

import streamlit as st

import altair as alt

import pandas as pd

import numpy as np

def visualize\_data(df, x\_axis, y\_axis):

    chart = alt.Chart(df).mark\_circle().encode(

        x=x\_axis,

        y=y\_axis,

        tooltip=[x\_axis, y\_axis]

    ).interactive()

    st.altair\_chart(chart, use\_container\_width=True)

def load\_data():

    uploaded\_file = st.file\_uploader("Upload a CSV file", type=["csv"])

    if uploaded\_file is not None:

        df = pd.read\_csv(uploaded\_file)

    else:

        file\_path = "metrics.csv"

        df = pd.read\_csv(file\_path)

    return df

def main():

    df = load\_data()

    page = st.sidebar.selectbox("Choose a page", ["Homepage", "Exploration"])

    if page == "Homepage":

        st.header("This is your data explorer.")

        st.write("Please select a page on the left.")

        st.write(df)

    elif page == "Exploration":

        st.title("Data Exploration")

        x\_axis = st.selectbox("Choose a variable for the x-axis", df.columns, index=3)

        y\_axis = st.selectbox("Choose a variable for the y-axis", df.columns, index=4)

        visualize\_data(df, x\_axis, y\_axis)

if \_\_name\_\_ == "\_\_main\_\_":

    main()

