

```
# Import necessary libraries
```

```
import streamlit as st
```

```
import seaborn as sns
```

```
import plotly.express as px
```

```
import pandas as pd
```

```
# --- Title and Introduction ---
```

```
st.title("Interactive Visualizations with  
Plotly and Streamlit")
```

```
# --- Input for Author Information ---
```

```
st.sidebar.header("Visualization skill  
workshop - Plotly")
```

```
name = st.sidebar.text_input("Enter your  
name")
```

```
usn = st.sidebar.text_input("Enter your roll  
no.")
```

```
instructor_name =  
st.sidebar.text_input("Course Instructor  
Name")
```

```
# --- Load Dataset ---
```

```
tips = sns.load_dataset('tips') # Loading  
the tips dataset
```

```
# Display the first few rows of the dataset
```

```
st.write("## Dataset Overview")
```

```
st.write(tips.head())
```

```
# --- Task 2: Interactive Bar Chart ---
```

```
st.subheader("Task 2: Bar Chart - Average  
Tip by Day")
```

```
# Bar Chart: Average Tip by Day with color  
for each day
```

```
fig2 = px.bar(
```

```
tips, x='day', y='tip', color='day',
```

```
title='Average Tip by Day',
```

```
labels={'tip': 'Average Tip ($)', 'day': 'Day  
of the Week'},
```

```
template='plotly_white'
```

```
)
```

```
st.plotly_chart(fig2) # Display the chart in  
Streamlit
```

