Task 1: Analyse user engagement across internship domains

code:

```
import pandas as pd
import matplotlib.pyplot as plt
# Load internship data
internship df = pd.read csv("/content/DOC-20250611-WA0003. - DOC-20250611-
WA0003..csv")
# Group by internship domain
domain_summary = internship_df.groupby("Internship_Domain").agg(
 Applications=('Applied', 'sum'),
 Participations=('Participated', 'sum')
).reset_index()
# Plotting
plt.figure(figsize=(10, 6))
bar width = 0.35
index = range(len(domain summary))
most_applied_domain = domain_summary.loc[domain_summary['Applications'].idxmax()]
print("Most Applied Domain:")
print(most_applied_domain)
# Find most popular domain by number of participations
most_participated_domain =
domain summary.loc[domain summary['Participations'].idxmax()]
print("\nMost Participated Domain:")
```

```
print(most_participated_domain)
plt.bar(index, domain summary['Applications'], bar width, label='Applications',
color='skyblue')
plt.bar([i + bar width for i in index], domain summary['Participations'], bar width,
label='Participations', color='orange')
plt.xlabel('Internship Domain')
plt.ylabel('Number of Students')
plt.title('Internship Applications and Participations by Domain')
plt.xticks([i + bar width/2 for i in index], domain summary['Internship Domain'])
plt.legend()
plt.tight_layout()
plt.show()
output:
Most Applied Domain:
Internship Domain
                                  AΙ
```

```
Applications
                       4
Participations
                       4
Name: 0, dtype: object
Most Participated Domain:
Internship Domain
                      ΑI
Applications
                       4
Participations
                       4
Name: 0, dtype: object
```

