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Subject: - **Machine Learning in Finance**

Week :- 3 logbook

```python
import pandas as pd
import matplotlib.pyplot as plt

data = pd.read_csv("telecom_churn.csv")
sid = 2461075
sid_str = str(sid)

col1 = int(sid_str[-2])
col2 = int(sid_str[-1])

if col1 == col2:
    col2 = (col2 + 1) % 10

col1 = col1 % len(data.columns)
col2 = col2 % len(data.columns)

x_col = data.columns[col1]
y_col = data.columns[col2]
```

```python
x_col = data.columns[col1]
y_col = data.columns[col2]

plt.figure(figsize=(7, 5))
plt.scatter(data[x_col], data[y_col], s=10, color='blue')
plt.xlabel(x_col)
plt.ylabel(y_col)
plt.title(f'Bicolour Diagram ({x_col} vs {y_col})')
plt.grid(True)
plt.show()
```