

ex - 3b

October 31, 2025

```
[ ]: import numpy as np
import pandas as pd
df = pd.read_csv("/content/pre_process_datasample (1).csv")
print("Original Dataset:\n", df)
df.info()
df.Country.fillna(df.Country.mode()[0], inplace=True)
df.Age.fillna(df.Age.median(), inplace=True)
df.Salary.fillna(round(df.Salary.mean()), inplace=True)
print("\nDataset after filling missing values:\n", df)
country_dummies = pd.get_dummies(df.Country)
updated_dataset = pd.concat([country_dummies, df.iloc[:, [1, 2, 3]]], axis=1)
updated_dataset.Purchased.replace(['No', 'Yes'], [0, 1], inplace=True)
print("\nFinal Processed Dataset:\n", updated_dataset)
```