## ✅ Question 1:

**How would you remove all rows from a Pandas DataFrame where a specific column has missing (NaN) values?**

df = df.dropna(subset=["age"])

## ▶️ Question 2:

**How would you fill all missing values in a numeric column (e.g., 'salary') with the column's mean?**

df['salary'] = df['salary'].fillna(df['salary'].mean())

## ▶️ Question 3:

You have the following DataFrame:

data = {

'name': ['Alice', 'Bob', 'Charlie'],

'score': [85, 92, 78]

}

df = pd.DataFrame(data)

ans = > df[df['name'] == 'Bob']

**▶️ Question 4:**

**How do you add a new column called 'passed' to this DataFrame, where the value is True if score >= 80, else False?**

You can create a new column 'passed' using a condition like this:

df['passed'] = df['score'] >= 80

This will create a boolean column where True means the score is 80 or above, and False otherwise.

import numpy as np

df['passed'] = np.where(df['score'] >= 80, True, False)

## ▶️ Question 5:

**How would you calculate the average score of all students in the DataFrame?**  
Write the code.

df['score'].mean()

## ▶️ Question 6:

**How do you sort the DataFrame by the 'score' column in descending order?**  
Write the code.

df = df.sort\_values(by='score', ascending=False)

## ▶️ Question 7:

**How would you group the DataFrame by the 'passed' column and calculate the average score for each group?**

**df.groupby('passed')['score'].mean()**