

Question:

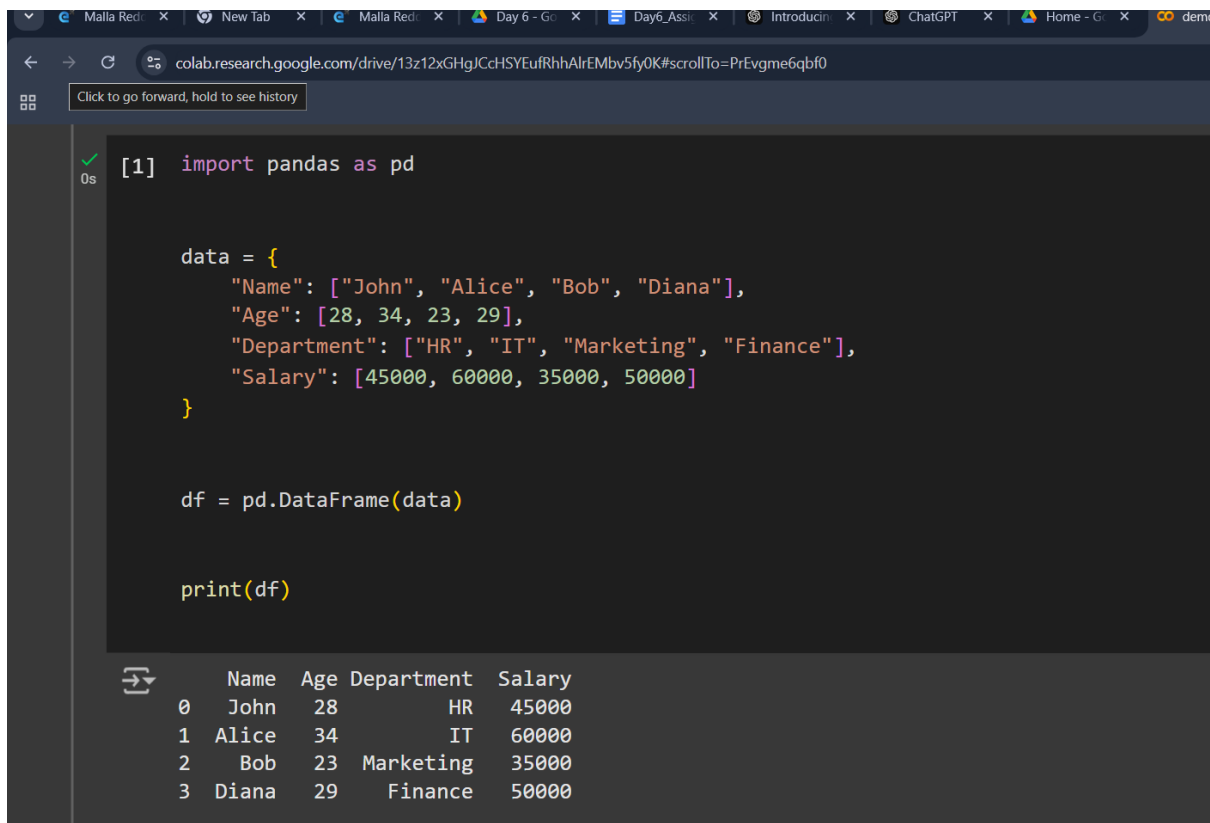
Using the Pandas library, perform the following tasks:

1. Create a DataFrame from the following data:

Name	Age	Department	Salary
John	28	HR	45000
Alice	34	IT	60000
Bob	23	Marketing	35000
Diana	29	Finance	50000

2. Write code to:

- Display the first 2 rows of the DataFrame.
- Add a new column named `Bonus` where the bonus is 10% of the salary.
- Calculate the average salary of employees in the DataFrame.
- Filter and display employees who are older than 25.



The screenshot shows a Google Colab notebook interface. The browser address bar displays a Google Drive link. The notebook code cell contains the following Python code:

```
[1] import pandas as pd

data = {
    "Name": ["John", "Alice", "Bob", "Diana"],
    "Age": [28, 34, 23, 29],
    "Department": ["HR", "IT", "Marketing", "Finance"],
    "Salary": [45000, 60000, 35000, 50000]
}

df = pd.DataFrame(data)

print(df)
```

The output of the code is displayed below the cell, showing a DataFrame with 4 rows and 4 columns:

	Name	Age	Department	Salary
0	John	28	HR	45000
1	Alice	34	IT	60000
2	Bob	23	Marketing	35000
3	Diana	29	Finance	50000

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Day 6 - Go

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import pandas as pd

data = {

"Name": ["John", "Alice", "Bob", "Diana"],

"Age": [28, 34, 23, 29],

"Department": ["HR", "IT", "Marketing", "Finance"],

"Salary": [45000, 60000, 35000, 50000]

}

df = pd.DataFrame(data)

first_two_rows = df.head(2)

print("First 2 rows of the DataFrame:")

print(first_two_rows)

df['Bonus'] = df['Salary'] * 0.10

print("\nDataFrame with the Bonus column:")

print(df)

average_salary = df['Salary'].mean()

print(f"\nAverage salary of employees: {average_salary}")

employees_older_than_25 = df[df['Age'] > 25]

print("\nEmployees older than 25:")

print(employees_older_than_25)

First 2 rows of the DataFrame:

	Name	Age	Department	Salary
0	John	28	HR	45000
1	Alice	34	IT	60000

DataFrame with the Bonus column:

	Name	Age	Department	Salary	Bonus
0	John	28	HR	45000	4500.0
1	Alice	34	IT	60000	6000.0
2	Bob	23	Marketing	35000	3500.0
3	Diana	29	Finance	50000	5000.0

Average salary of employees: 47500.0

Employees older than 25:

	Name	Age	Department	Salary	Bonus
0	John	28	HR	45000	4500.0
1	Alice	34	IT	60000	6000.0
3	Diana	29	Finance	50000	5000.0