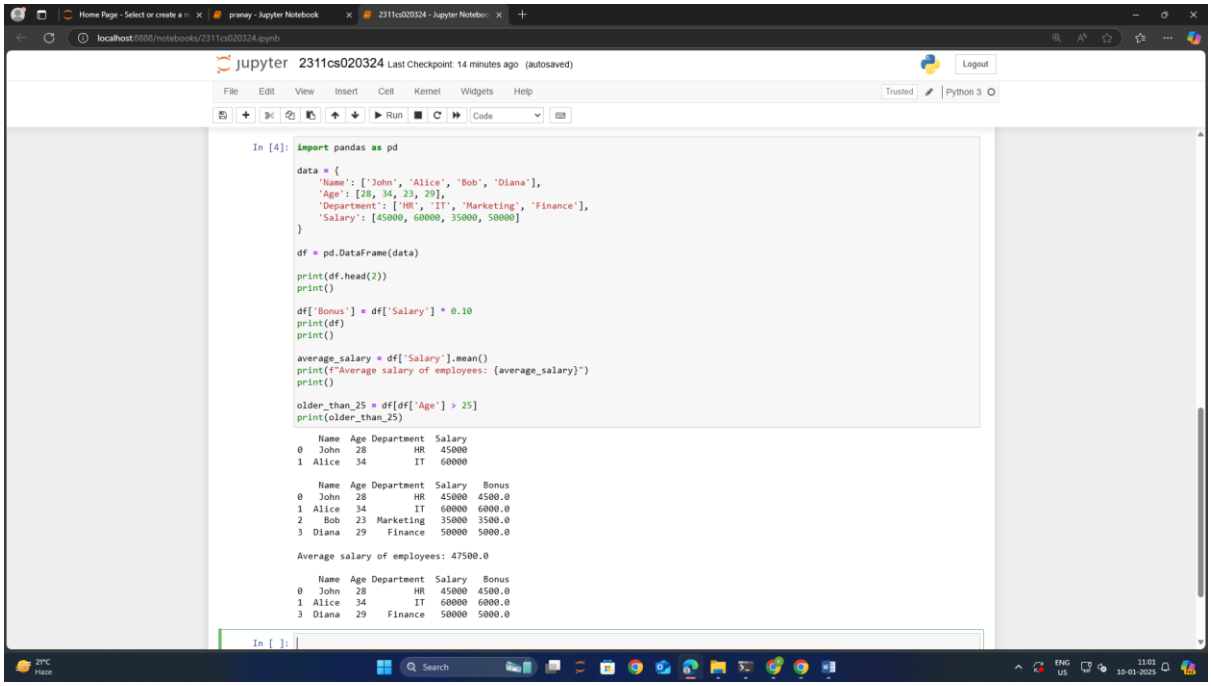
Day6

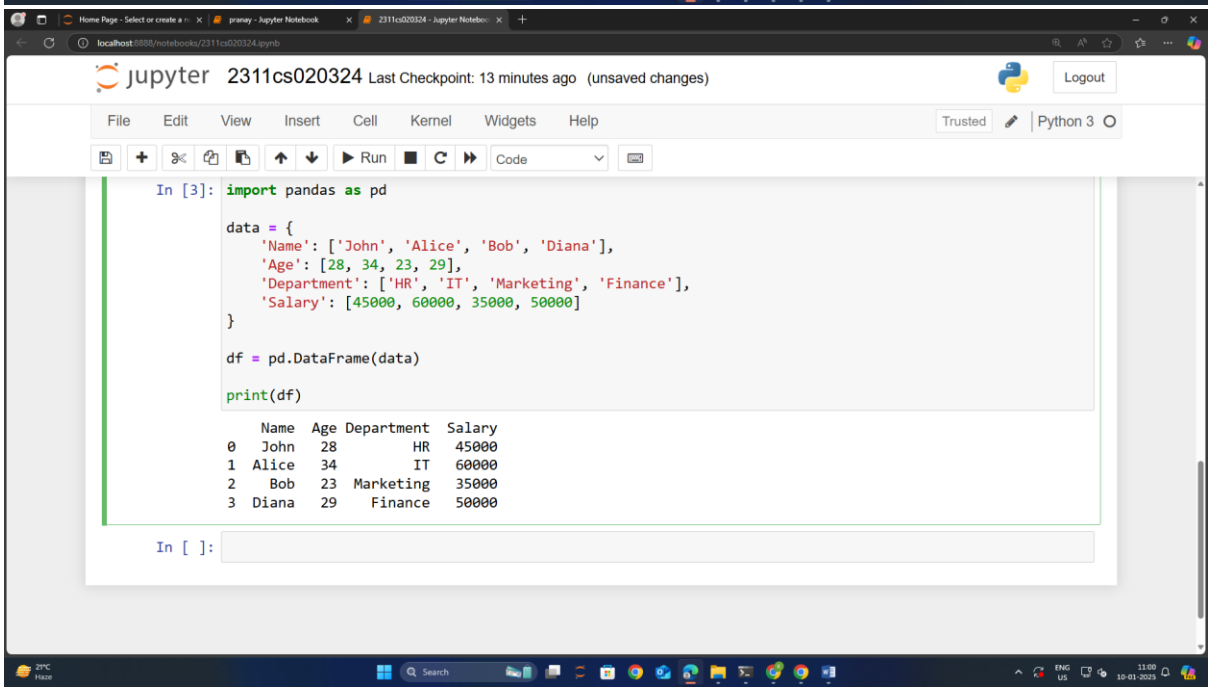
Question:
Using the Pandas library, perform the following tasks:

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.


jupyter 2311cs020324 Last Checkpoint: 14 minutes ago (autosaved)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted Python 3
Run Code
In [4]:
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.head(2))
print()
df['Bonus'] = df['Salary'] * 0.10
print(df)
print()
average_salary = df['Salary'].mean()
print(f"Average salary of employees: {average_salary}")
print()
older_than_25 = df[df['Age'] > 25]
print(older_than_25)
Name Age Department Salary
0 John 28 HR 45000
1 Alice 34 IT 60000
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
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
In [ ]:


jupyter 2311cs020324 Last Checkpoint: 13 minutes ago (unsaved changes)
Logout
File Edit View Insert Cell Kernel Widgets Help
Trusted Python 3
Run Code
In [3]:
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)
Name Age Department Salary
0 John 28 HR 45000
1 Alice 34 IT 60000
2 Bob 23 Marketing 35000
3 Diana 29 Finance 50000
In [ ]: