



TECHNIK NEST

INNOVATIVE MINDS, NESTING SUCCESS

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Task no: 3



Task 1: 1. Fetch GitHub info of user and print repos of your account.

2. use joke api to fetch and print the jokes

Code:

```
repo.py > ...
1  import requests
2
3  # Apna GitHub username likho
4  username = "AleenaZainab1"
5
6  # API URL
7  url = f"https://api.github.com/users/{username}/repos"
8
9  # Request bhejna
10 response = requests.get(url)
11
12 print("\n--- GitHub Repositories ---")
13 if response.status_code == 200:
14     repos = response.json()
15     if repos:
16         for repo in repos:
17             print("-", repo["name"])
18     else:
19         print("No repositories found!")
20 else:
21     print("Error:", response.status_code)
22
```

Output:

```
13/python.exe c:/Users/ABXX/Desktop/week4/repo.py
--- GitHub Repositories ---
- Week-2
- Week1
- WEEK3-1-
- week3task2
- week3task3
PS C:\Users\ABXX\Desktop\week4>
```



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2. Code:

```
Welcome (preview)
1  import requests
2
3  # API URL
4  url = "https://official-joke-api.appspot.com/random_joke"
5
6  # Request bhejna
7  response = requests.get(url)
8
9  print("\n--- Random Joke ---")
10 if response.status_code == 200:
11     joke = response.json()
12     print(joke["setup"])      # Joke ka pehla part
13     print(joke["punchline"]) # Joke ka answer
14 else:
15     print("Error:", response.status_code)
16
```

Output:

```
13/python.exe c:/Users/ABXX/Desktop/week4/joke
```

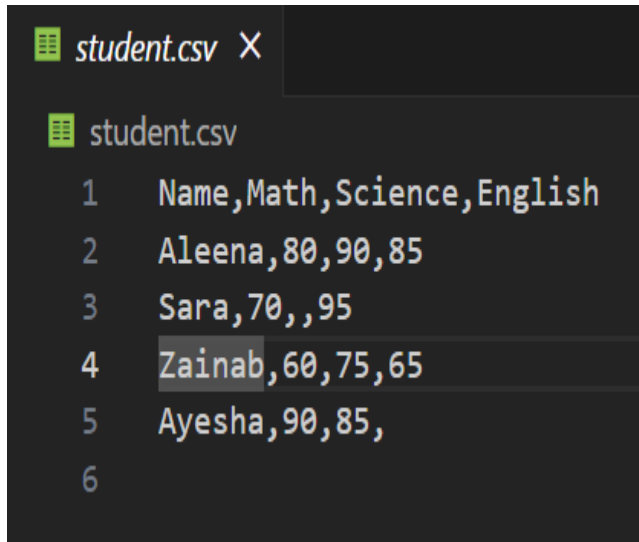
```
--- Random Joke ---
Why don't scientists trust atoms?
Because they make up everything.
PS C:\Users\ABXX\Desktop\week4>
```

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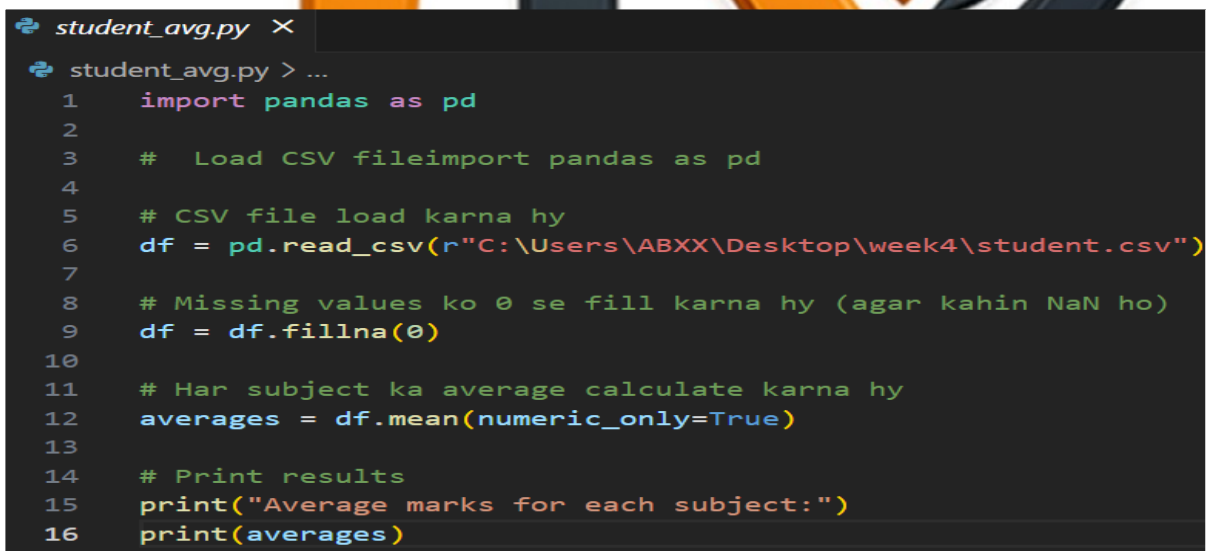
Task 2: 1. Load students.csv that contain students data you have to clean it using pandas and then print the average marks for each subject of whole class.

Student csv:

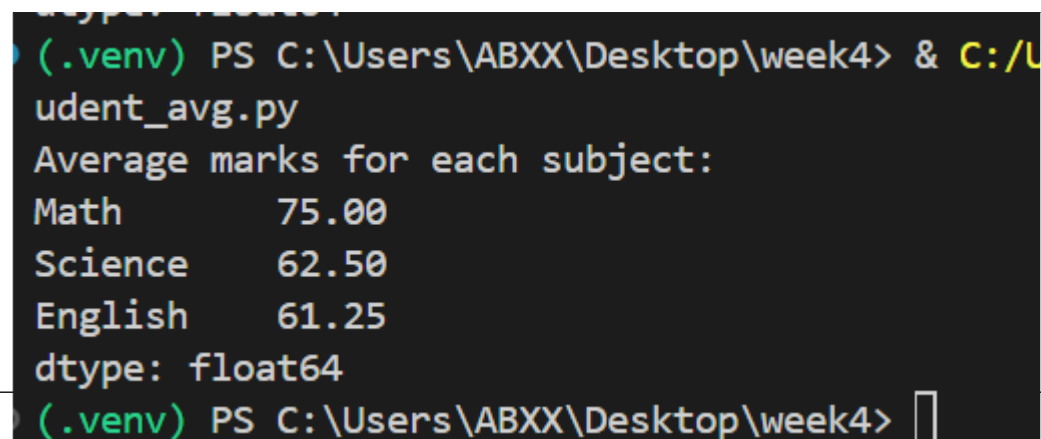


```
student.csv X
student.csv
1 Name,Math,Science,English
2 Aleena,80,90,85
3 Sara,70,,95
4 Zainab,60,75,65
5 Ayesha,90,85,
6
```

Code:



```
student_avg.py X
student_avg.py > ...
1 import pandas as pd
2
3 # Load CSV fileimport pandas as pd
4
5 # CSV file load karna hy
6 df = pd.read_csv(r"C:\Users\ABXX\Desktop\week4\student.csv")
7
8 # Missing values ko 0 se fill karna hy (agar kahin NaN ho)
9 df = df.fillna(0)
10
11 # Har subject ka average calculate karna hy
12 averages = df.mean(numeric_only=True)
13
14 # Print results
15 print("Average marks for each subject:")
16 print(averages)
```



```
(.venv) PS C:\Users\ABXX\Desktop\week4> & C:/U
udent_avg.py
Average marks for each subject:
Math      75.00
Science   62.50
English    61.25
dtype: float64
(.venv) PS C:\Users\ABXX\Desktop\week4> 
```

Output:

Task 3:

Code:

```
task4.py × student.csv
task4.py > ...
1 import pandas as pd
2 import matplotlib.pyplot as plt
3
4 # ----- Task 1: Bar chart of marks per student -----
5 df = pd.read_csv("student.csv")
6
7 # Missing values ko 0 se replace kar do
8 df = df.fillna(0)
9
10 # Har student ke total marks
11 df["Total"] = df[["Math", "Science", "English"]].sum(axis=1)
12
13 # Bar chart
14 plt.bar(df["Name"], df["Total"])
15 plt.xlabel("Students")
16 plt.ylabel("Total Marks")
17 plt.title("Marks per Student")
18 plt.show()
19
20
21 # ----- Task 2: Line chart of monthly sales -----
22 months = ["Jan", "Feb", "Mar", "Apr", "May", "Jun"]
23 sales = [10000, 12000, 9000, 15000, 18000, 16000]
24
25 plt.plot(months, sales, marker="o")
26 plt.xlabel("Months")
27 plt.ylabel("Sales")
28 plt.title("Monthly Sales of Company")
29 plt.show()
--
```

Student.csv:



```
task4.py student.csv X
student.csv
1 Name,Math,Science,English
2 Aleena,80,90,85
3 Sara,70,,95
4 Zainab,60,75,65
5 Ayesha,90,85,
6
```

Graph 1:

Graph 2:





Task 4: 1. Text analyzer character count app using gradio.

Code:

```
task4a.py x
.venv > task4a.py > ...
1  import gradio as gr
2
3  # Function: Character count
4  def char_count(text):
5      return len(text)
6
7  # Gradio Interface
8  demo = gr.Interface(
9      fn=char_count,
10     inputs="text",
11     outputs="number",
12     title="Text Analyzer - Character Count",
13     description="Enter any text and get the total number of characters."
14 )
15
16 # Launch App
17 demo.launch()
```

Link:

<http://127.0.0.1:7860>

Output:

Text Analyzer - Character Count

Enter any text and get the total number of characters.

text	output
Aleena Zainab	13

Clear Submit Flag

Use via API · Built with Gradio · Settings

