TECHNIK NEST

INNOVATIVE MINDS, NESTING SUCCESS

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Internship Domain : PYTHON

Task Week : 2

Instructor Name :Hassan ali

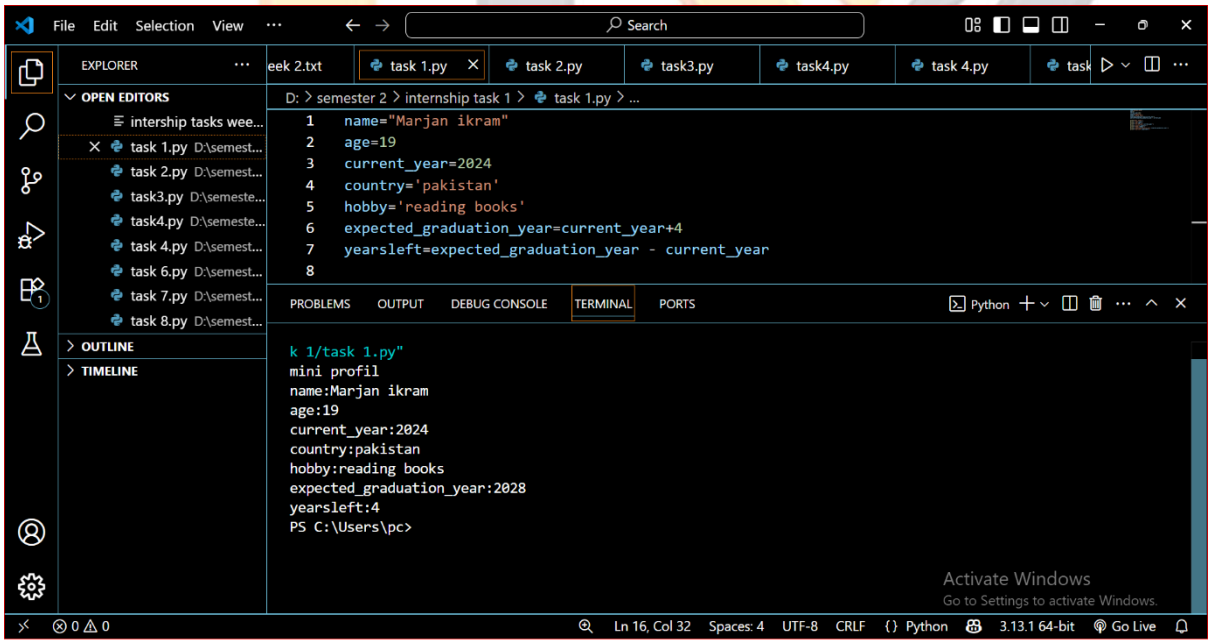
Task 1 :

Mini profile:

How I did it:

- I created a simple Python program that shows my personal mini profile.
- I stored details like name, age, country, and hobby using variables.
- I calculated the expected graduation year by adding 4 to the current year.
- I also calculated how many years are left until graduation.
- Finally i printed all the information.

Screenshot:



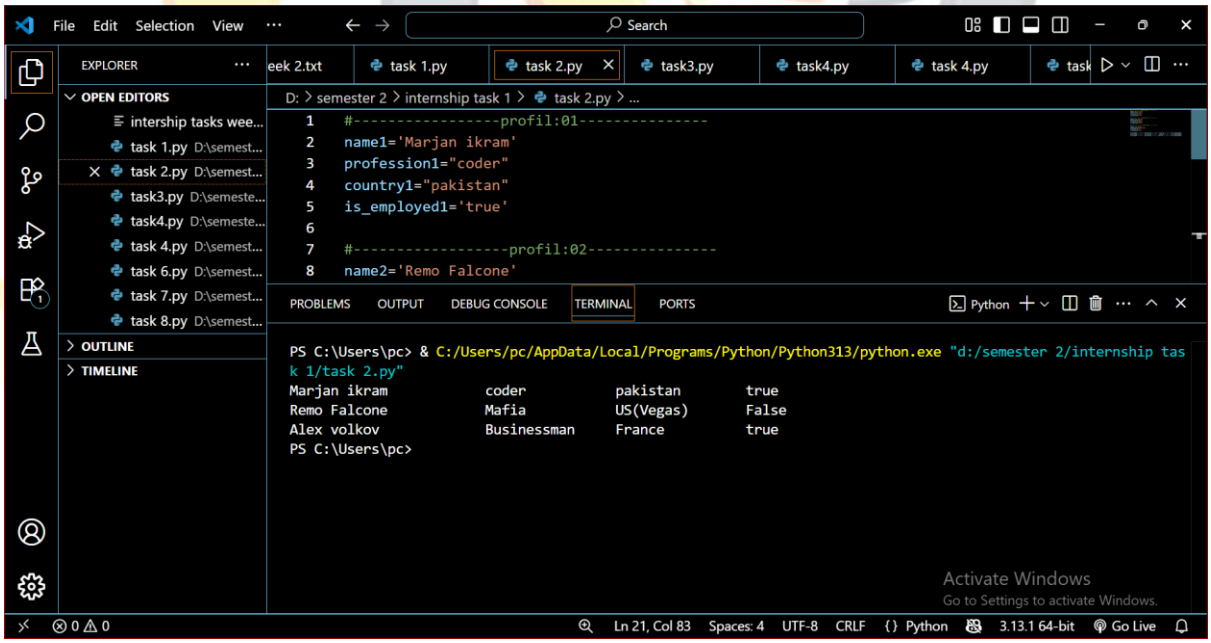
Task 2:

Creating 3 user profile:

How I did it:

- Firstly, I created 3 separate profiles using variables (name, profession, country, employment status).
- Each profile has values like name, profession, country, and whether the person is employed.
- In the I print all 3 profiles in a tabular format, line by line.

Screenshot:



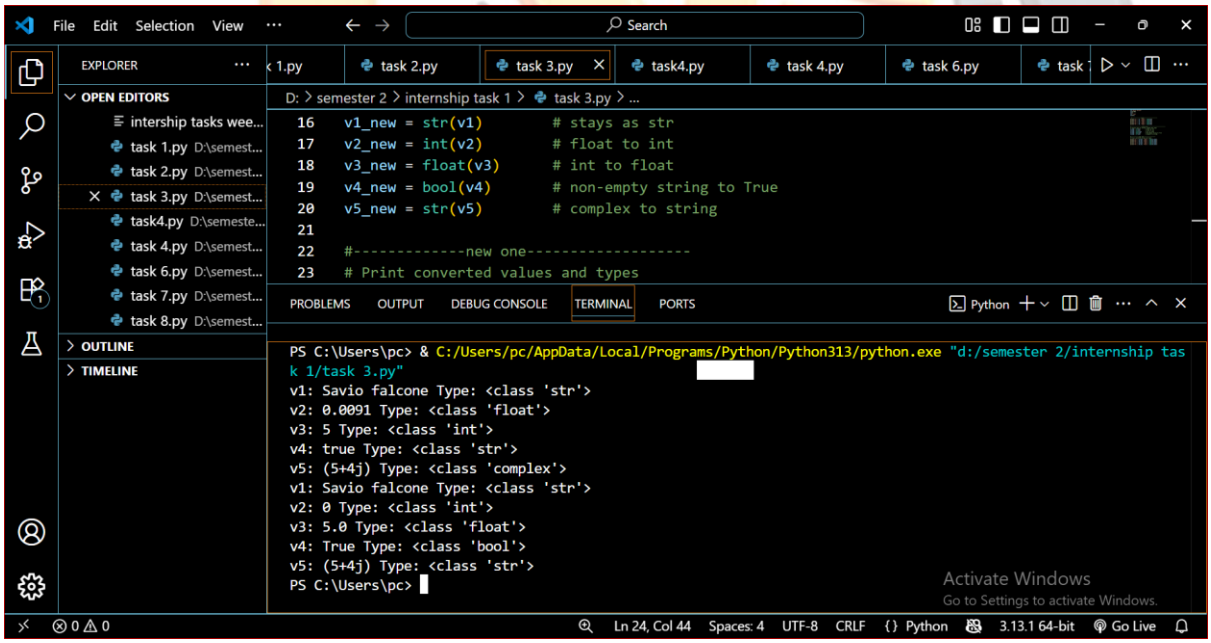
Task 03:

Data types and type conversion:

How I did:

- First of all I created 5 variables (v1 to v5) with different data types like string, float, integer, boolean and complex number.
- Then I used type() to print and check their original data types.
- I converted each variable to a different simple data type (e.g., float to int, int to float, etc.).
- Finally, I printed the converted values and their new data types..

Screenshot:



Task 04:

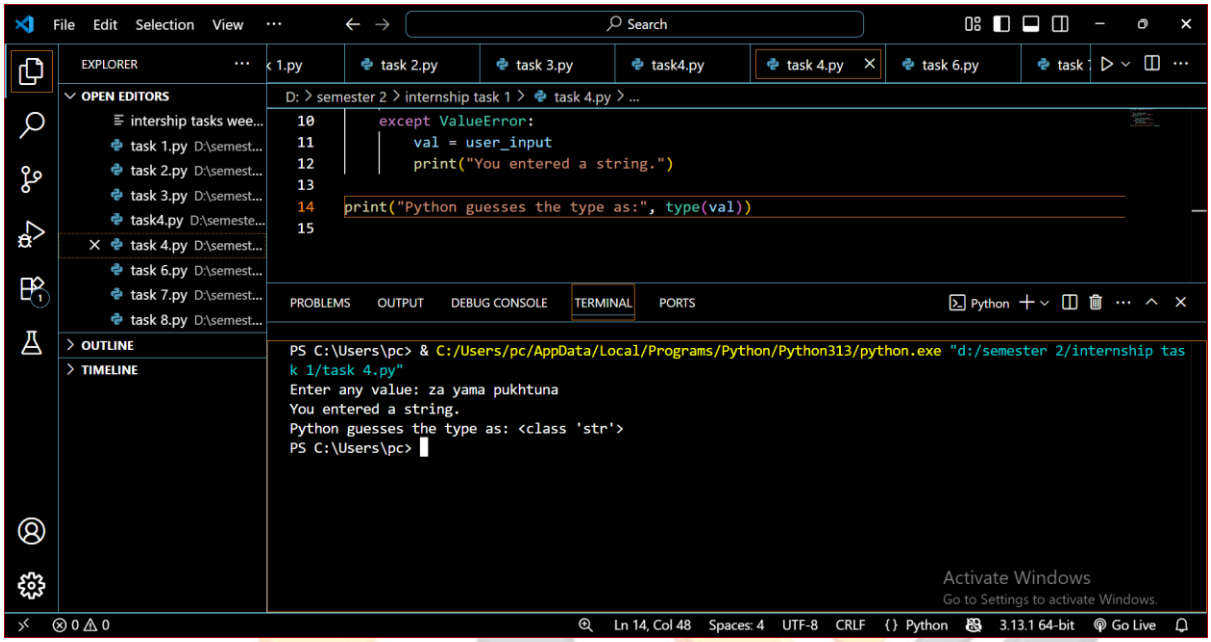
Data type tester:

How I did it:

- Takes input from the user using input().
- Tries to convert the input to an int.

- If that fails, it tries to convert the input to a float.
- If both conversions fail, it treats the input as a string.
- Prints the detected data type using type().

Screenshot:



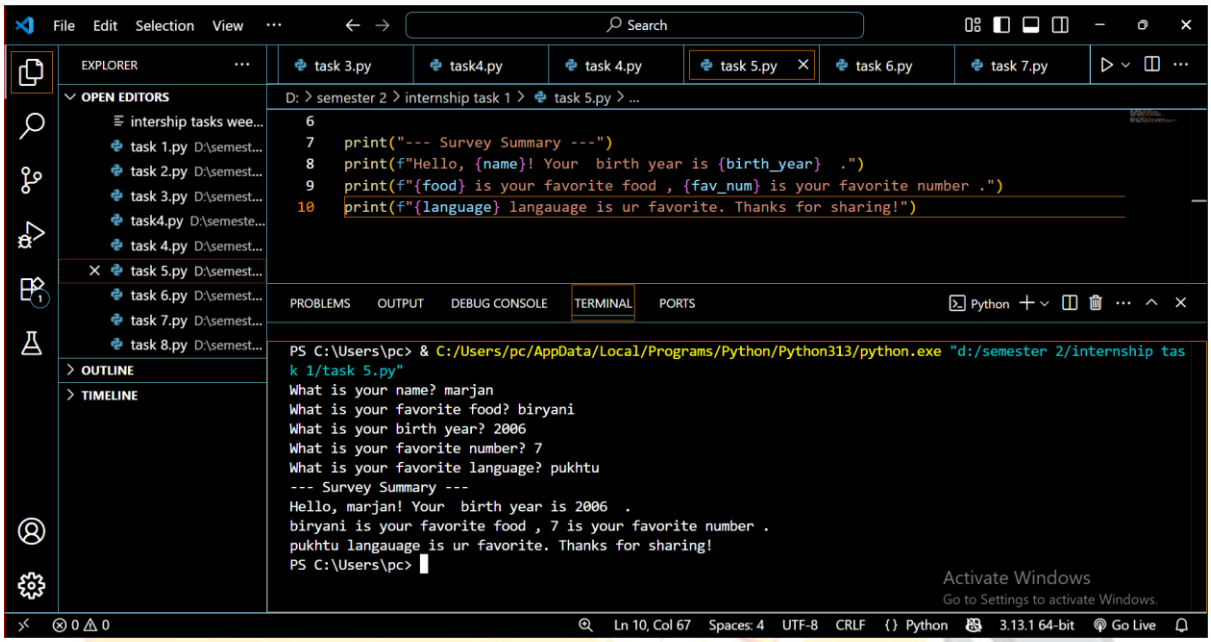
Task 05:

Command line survey:

How I did it:

- The code asks you some questions like your name, favorite food, birth year, etc.
- All answers are saved in different boxes (called variables).
- It then shows a heading: "--- Survey Summary ---".
- After that, it prints a short message using your answers.
- In last it print the summary of what u have shared.

Screenshot:



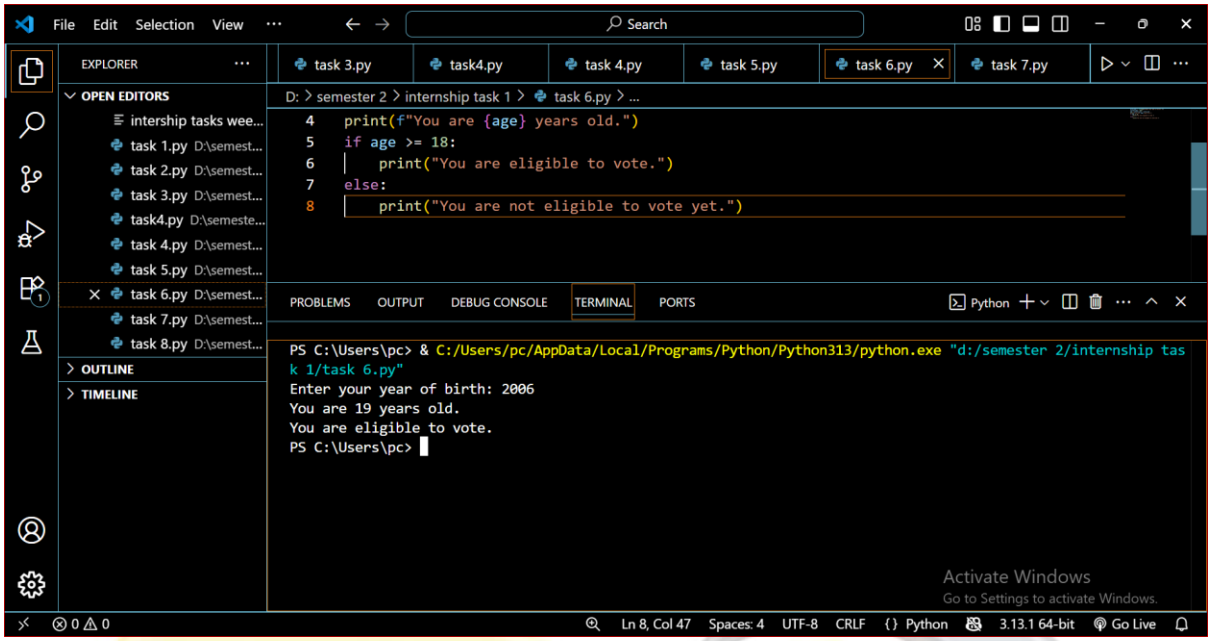
Task 06:

Calcualting age:

How I did it:

- The program asks you to enter your year of birth.
- It stores the current year as 2025.
- It calculates your age by subtracting your birth year from 2025.
- It prints how old you are.
- Then it checks:
- If you are 18 or older, it says you can vote.
- If you are under 18, it says you can't vote yet

Screenshot



Task 07:

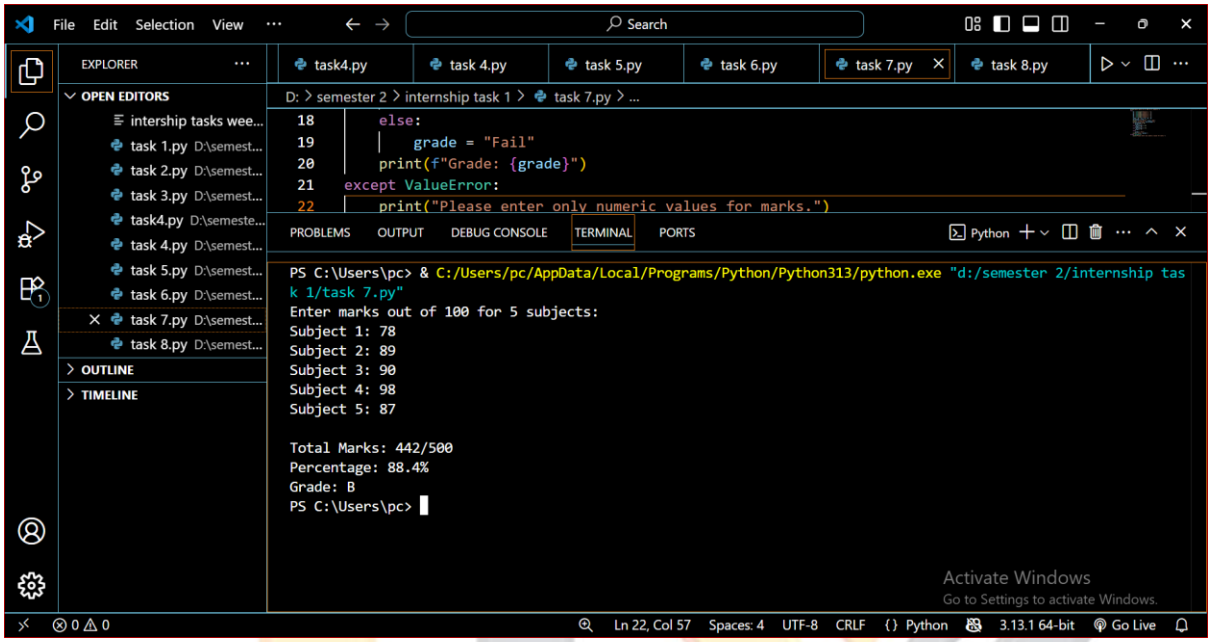
Percentage :

How I did it:

- The code asks the user to enter marks (out of 100) for 5 subjects.
- It uses try-except to catch errors if the user enters anything other than numbers.
- It adds all 5 marks to calculate the total, then finds the percentage by dividing the total by 5.
- It prints the total marks, percentage, and assigns a grade based on the percentage:
- 90 or above → Grade A
- 80–89 → Grade B
- 70–79 → Grade C

- Below 70 → Fail
- If the user enters something that is not a number, it shows a message: "Please enter only numeric values for marks."

Screenshot:



Task 08:

Celsius to Farenheit:

How I did it:

- The program asks the user to enter a temperature in Celsius.
- It converts the Celsius value to Fahrenheit using the formula: $(C \times 9/5) + 32$.
- Then it asks the user to enter a temperature in Fahrenheit.
- It converts the Fahrenheit value to Celsius using the formula: $(F - 32) \times 5/9$.

- If the user enters a non-numeric value, the try-except block catches the error and shows: "Invalid input. Please enter numeric values only."

Screenshot: