

ASSIGNMENT - 02

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Batch No. : 01

Course : AI Assisstant Coding

Task 1: Statistical Summary for Survey Data

❖ Scenario:

You are a data analyst intern working with survey responses stored as numerical lists.

❖ Task:

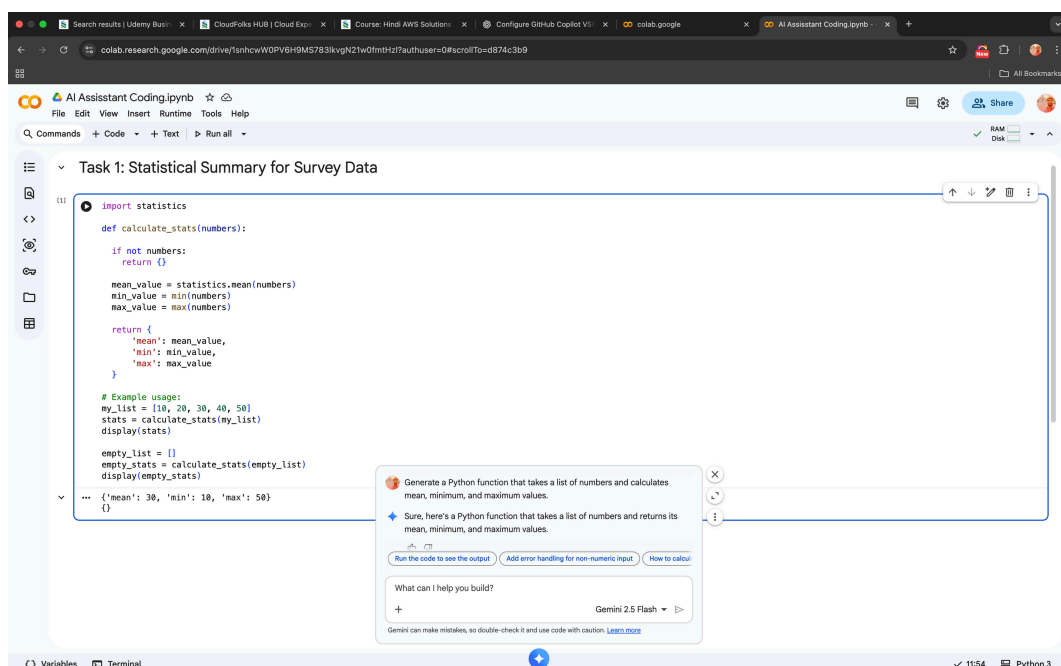
Use Google Gemini in Colab to generate a Python function that reads a list of numbers and calculates the mean, minimum, and maximum values.

❖ Expected Output:

➤ Correct Python function

➤ Output shown in Colab

➤ Screenshot of Gemini prompt and result



Task 2: Armstrong Number – AI Comparison

❖ Scenario:

You are evaluating AI tools for numeric validation logic.

❖ Task:

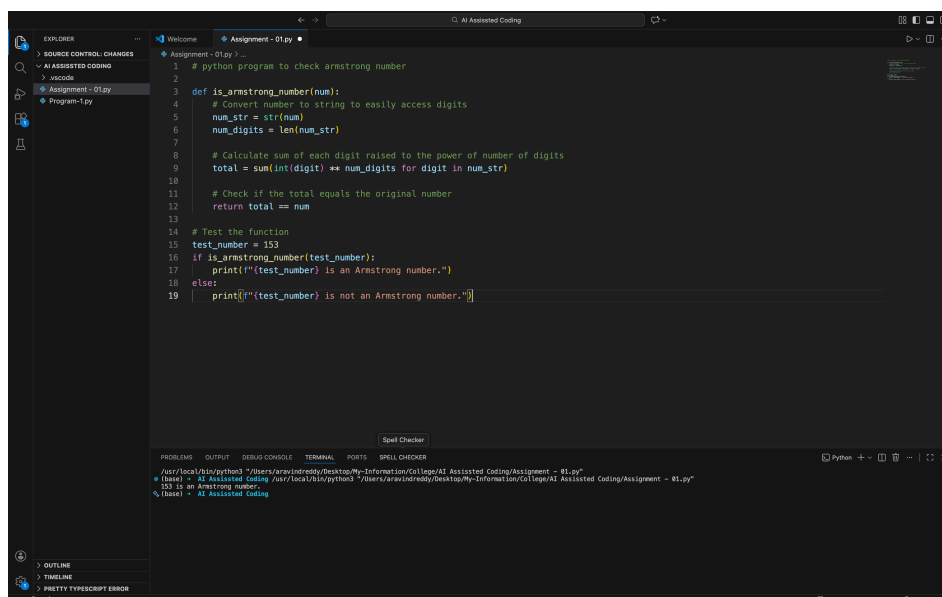
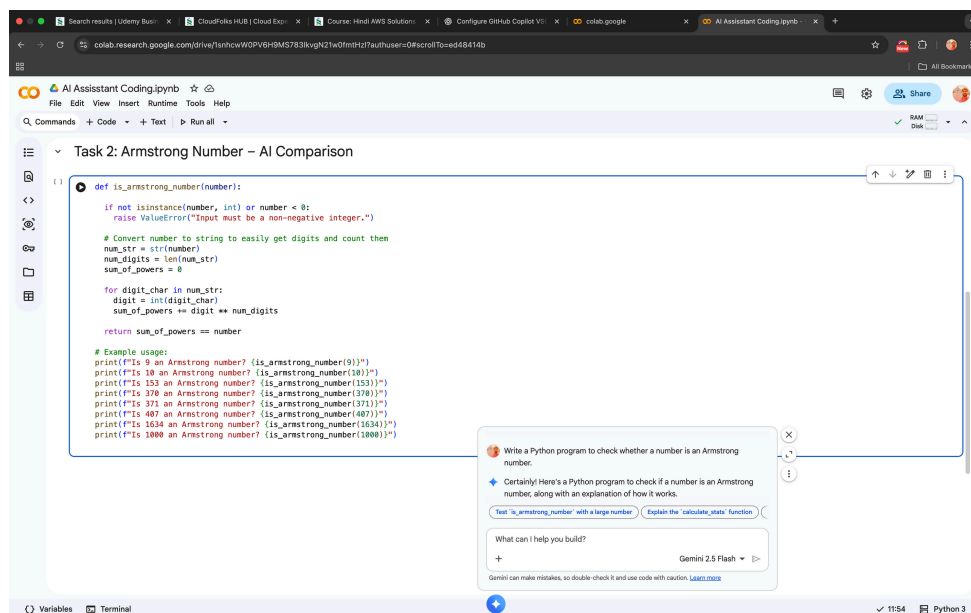
Generate an Armstrong number checker using Gemini and GitHub Copilot.

Compare their outputs, logic style, and clarity.

❖ Expected Output:

➤ Side-by-side comparison table

➤ Screenshots of prompts and generated code



Task 3: Leap Year Validation Using Cursor AI

❖ Scenario:

You are validating a calendar module for a backend system.

❖ Task:

Use Cursor AI to generate a Python program that checks whether a given year is a leap year.

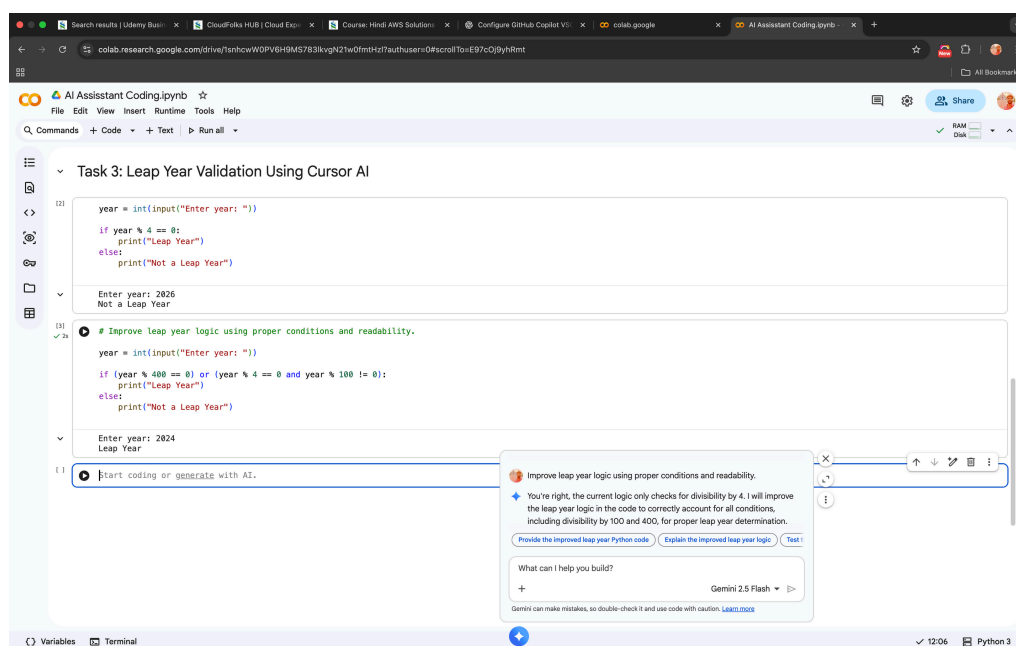
Use at least two different prompts and observe changes in code.

❖ Expected Output:

➤ Two versions of code

➤ Sample inputs/outputs

➤ Brief comparison



Task 4: Student Logic + AI Refactoring (Odd/Even Sum)

❖ Scenario:

Company policy requires developers to write logic before using AI.

❖ Task:

Write a Python program that calculates the sum of odd and even numbers in a tuple, then refactor it using any AI tool.

❖ Expected Output:

➤ Original code

➤ Refactored code

➤ Explanation of improvements

