# **Assignment-3**

NAME: K.NAVYA SRI.

**ENROLL NO: 2503A52L12** 

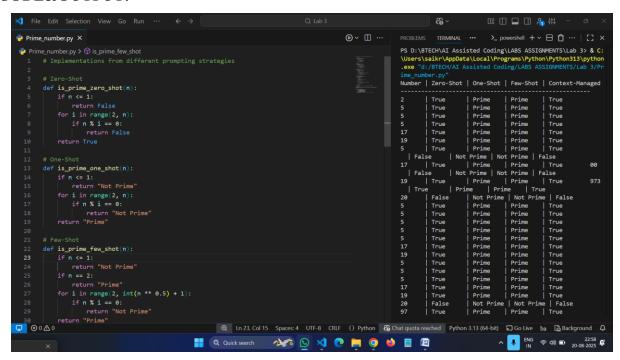
**BATCH: 16** 

**TASK 1:**Select a simple task: "Write a Python function to check if a number is prime".

### **Prompt:**

"Write a Python function to check if a number is prime that generate with the one shot, zero shot, few shot solution".

### **CODE&OUTPUT:**



## **Task 2: Mobile Data Usage Billing Application**

### **PROMPT:**

I want to create a simple Python program for an LPG Billing System.

The program should ask the user for:

- Cylinder type (Domestic 14.2 kg / Domestic 5 kg / Commercial 19 kg / Commercial 47.5 kg)
- Number of cylinders booked

- Subsidy amount (only for domestic cylinders)
- Delivery charges (between ₹10 and ₹50)

Then, based on this input, it should calculate the total LPG bill using this formula:

### Bill Amount = (Price per Cylinder × Quantity) - Subsidy (if applicable) + Delivery Charges

Use these LPG prices:

- Domestic 14.2 kg → ₹905.00
- Domestic 5 kg  $\rightarrow 335.50$
- Commercial 19 kg → ₹1,886.50
- Commercial 47.5 kg  $\rightarrow$  ₹4,712.00

Finally, the program should display a clear and neat **itemized bill** showing:

- Cylinder Type
- Number of Cylinders
- Base Amount
- Subsidy
- Delivery Charges
- Total Bill Amount

### **CODE & OUTPUT:**

### Task 3: Develop an LPG Billing System

### **Objective**

Apply your Python programming skills and utilize AI-assisted coding tools to build an application that calculates the LPG bill based on specified customer inputs and billing parameters.

- 1. Use GitHub Copilot or Google Gemini to assist in writing and refining the program.
- 2. Read the following user inputs:
  - Cylinder Type (Domestic 14.2 kg / Domestic 5 kg / Commercial 19 kg / Commercial 47.5 kg)
  - Number of Cylinders Booked
  - Subsidy Amount (applicable only for domestic cylinders)
- 3. Refer to the given LPG Price List to determine the price per cylinder:
  - o Domestic LPG (14.2 kg)  $\rightarrow$  ₹905.00
  - o Domestic LPG (5 kg)  $\rightarrow$  ₹335.50
  - o Commercial LPG (19 kg) → ₹1,886.50
  - Commercial LPG (47.5 kg)  $\rightarrow ₹4,712.00$
  - o Delivery Charges (₹10 to ₹50)
- 4. Implement the billing formula:

Bill Amount = (Price per Cylinder × Quantity) - Subsidy (if applicable) + Delivery Charges

- 5. Calculate and display an itemized bill including:
- Cylinder Type
- Number of Cylinders
- Base Amount
- Subsidy
- Delivery Charges
- Total Bill Amount

### **CODE&OUTPUT:**

```
| Second | S
```