

ASSIGNMENT – 9.5

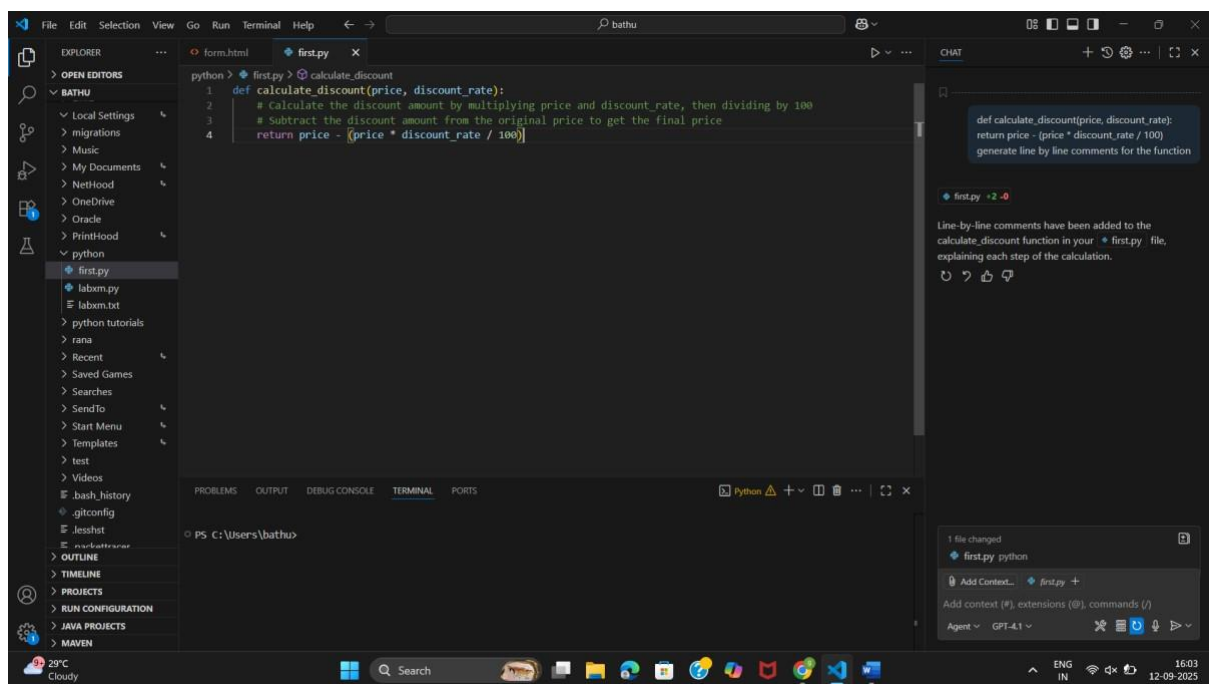
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BATCH – 18

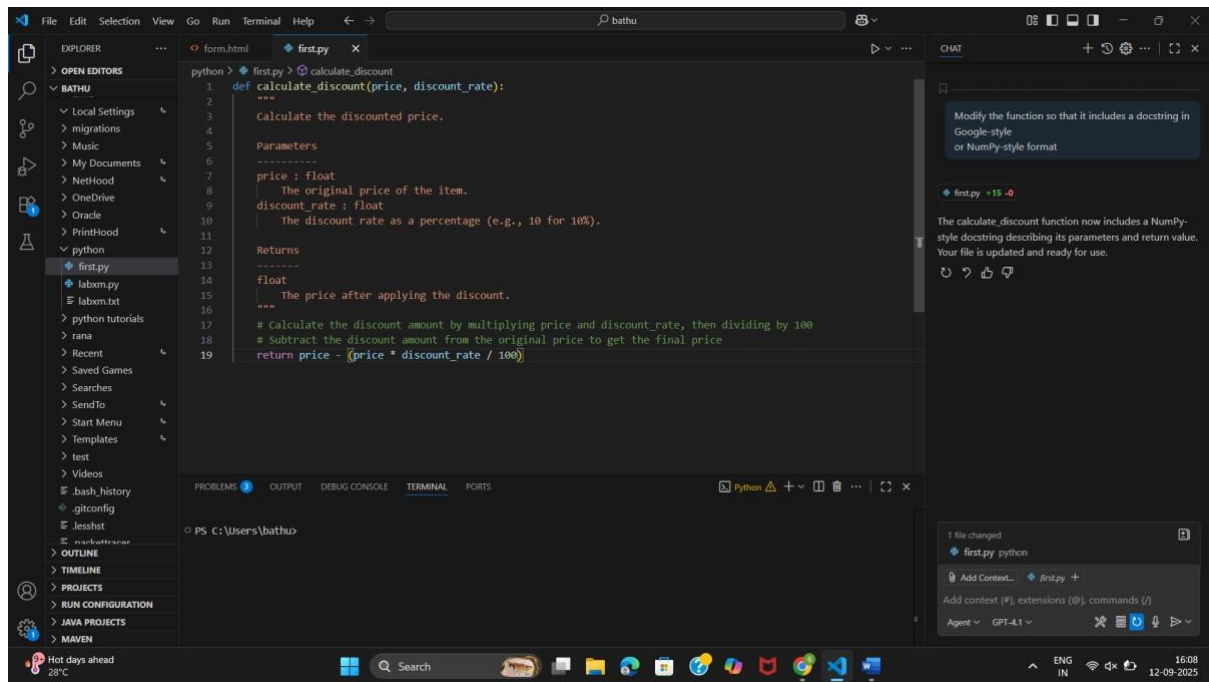
Task 1:-

Scenario: You have been given a Python function without comments. `def calculate_discount(price, discount_rate):`
`return price - (price * discount_rate / 100);`

Line by line comment:-



After modifying it into google style or numpy style:-



Task 2:-

Scenario: A team is building a Library Management System

with multiple functions. `def add_book(title, author, year):`

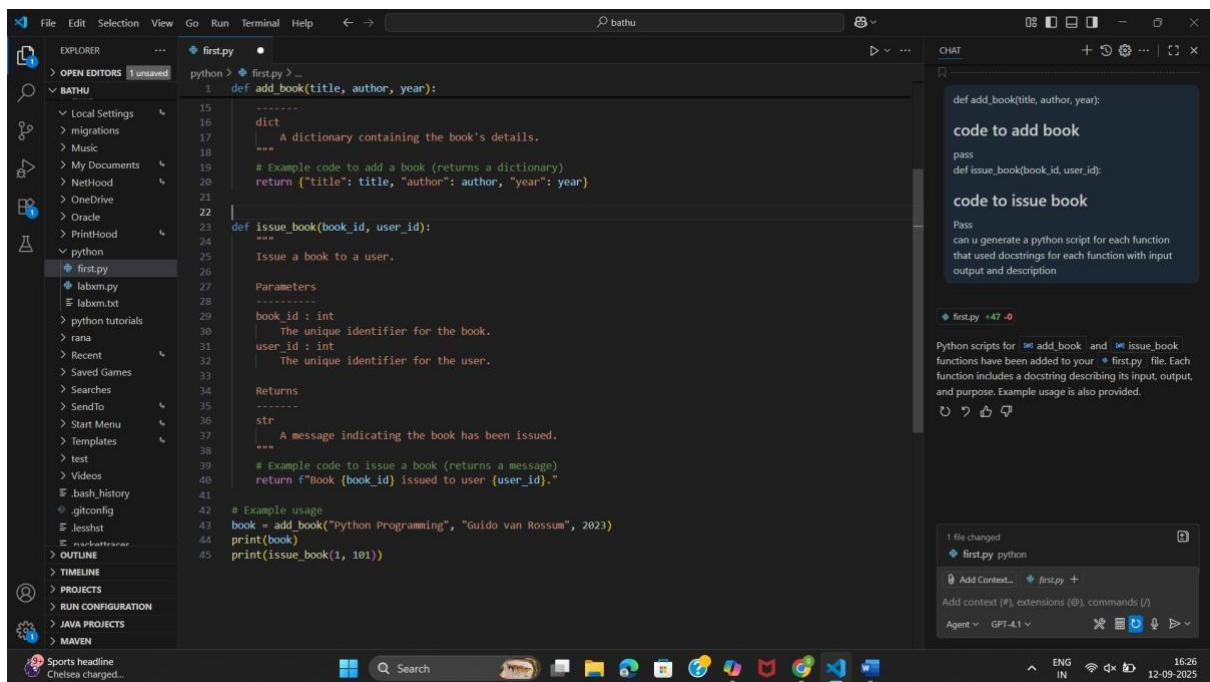
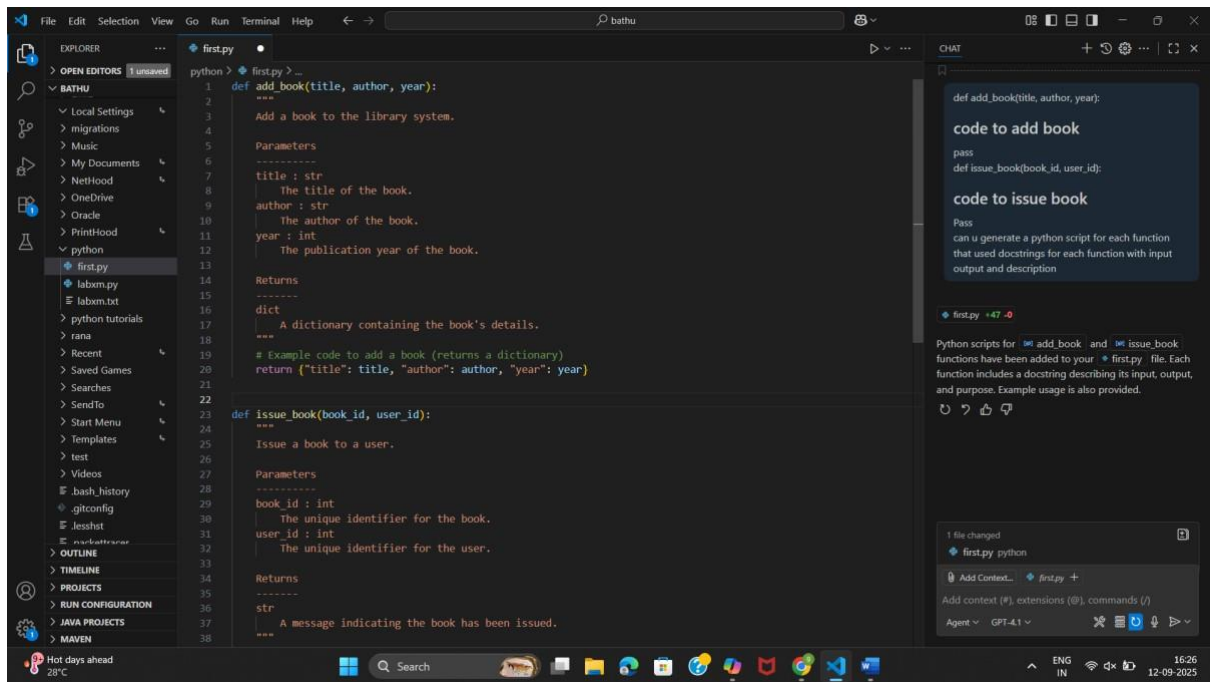
`# code to add book pass def`

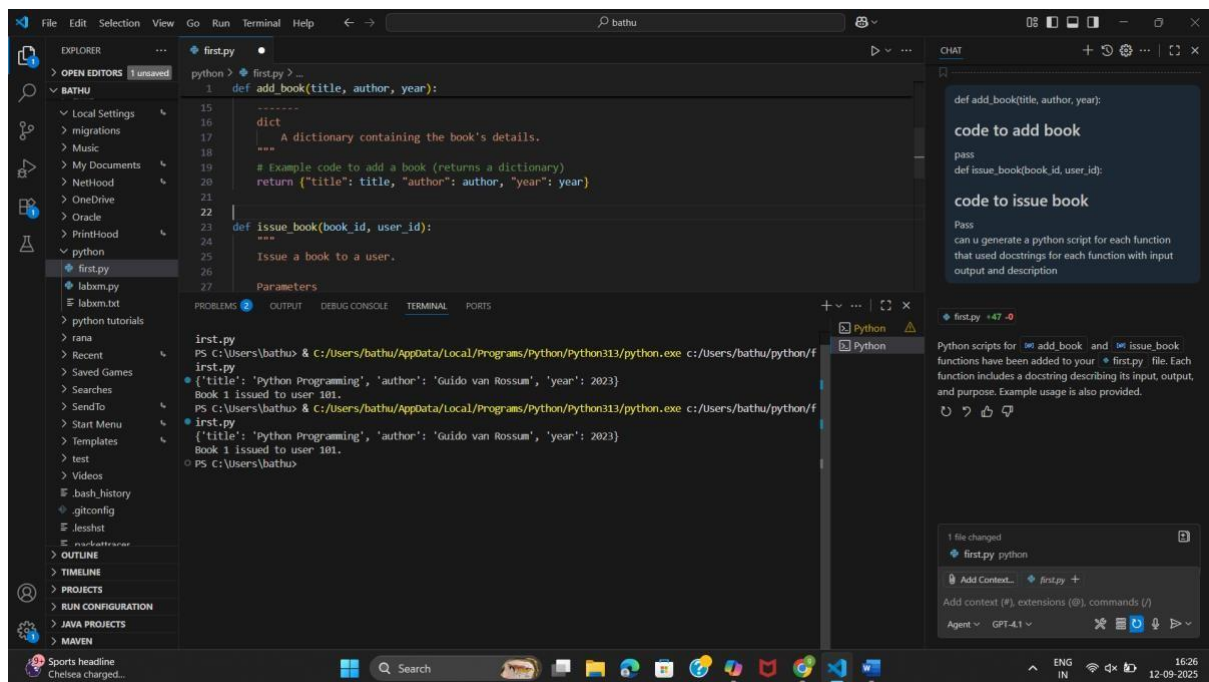
`issue_book(book_id, user_id):`

`# code to issue book`

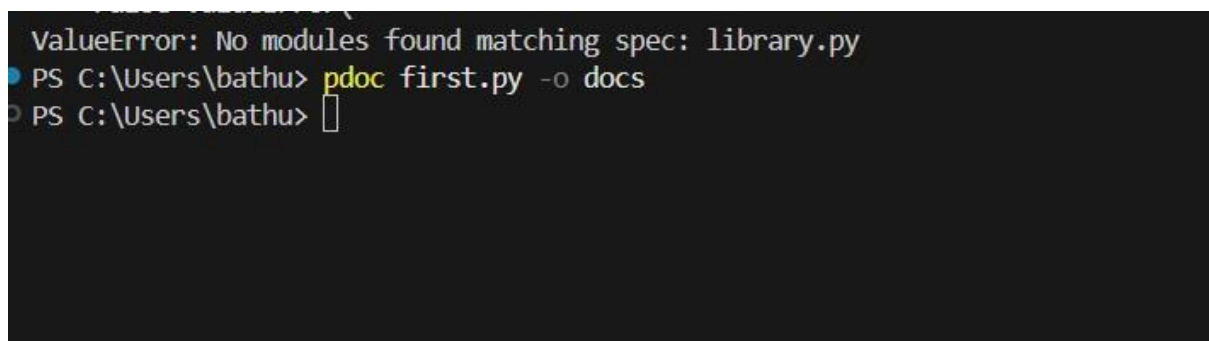
`Pass`

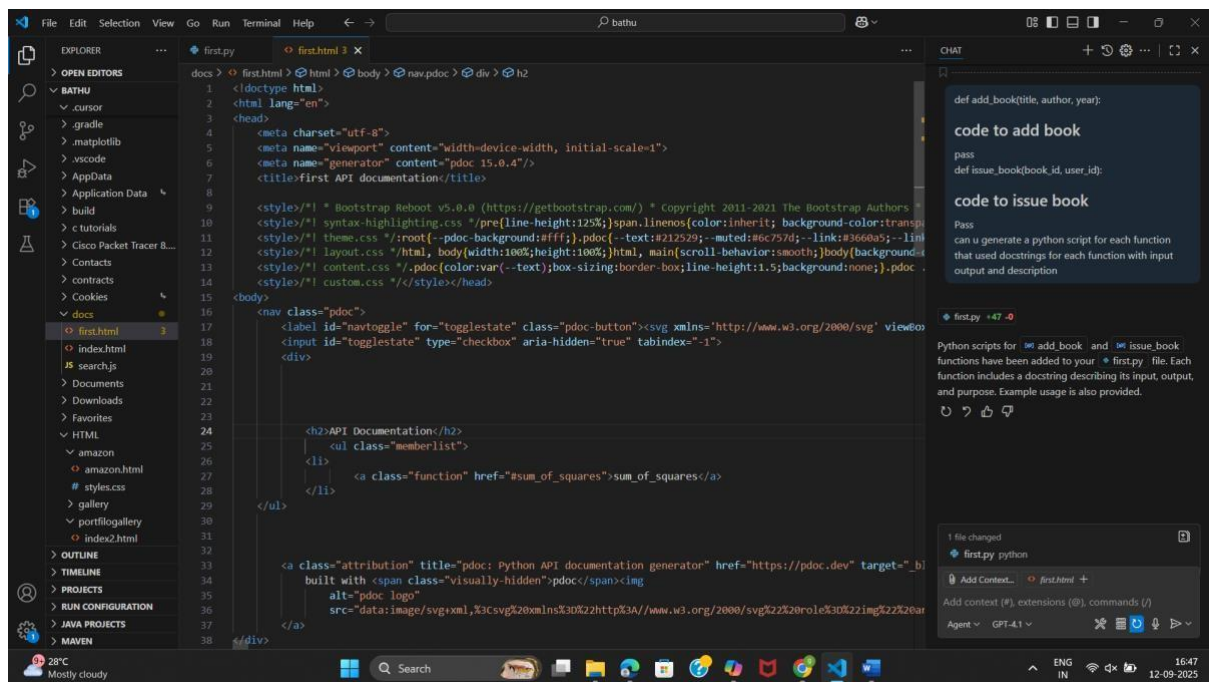
Docstrings for each function using input,output and description





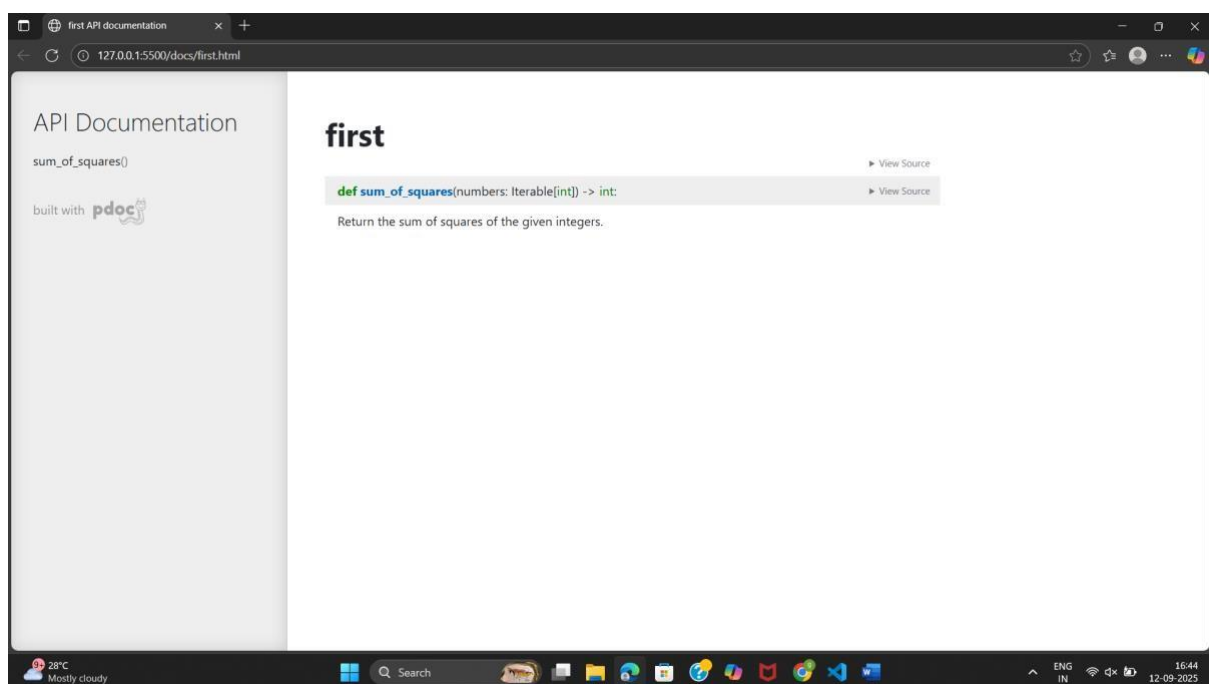
Creating a HTML documentation by using Documentation Generation Tool **pdoc**





Auto-generated documentation

Output:-



Task 3:-

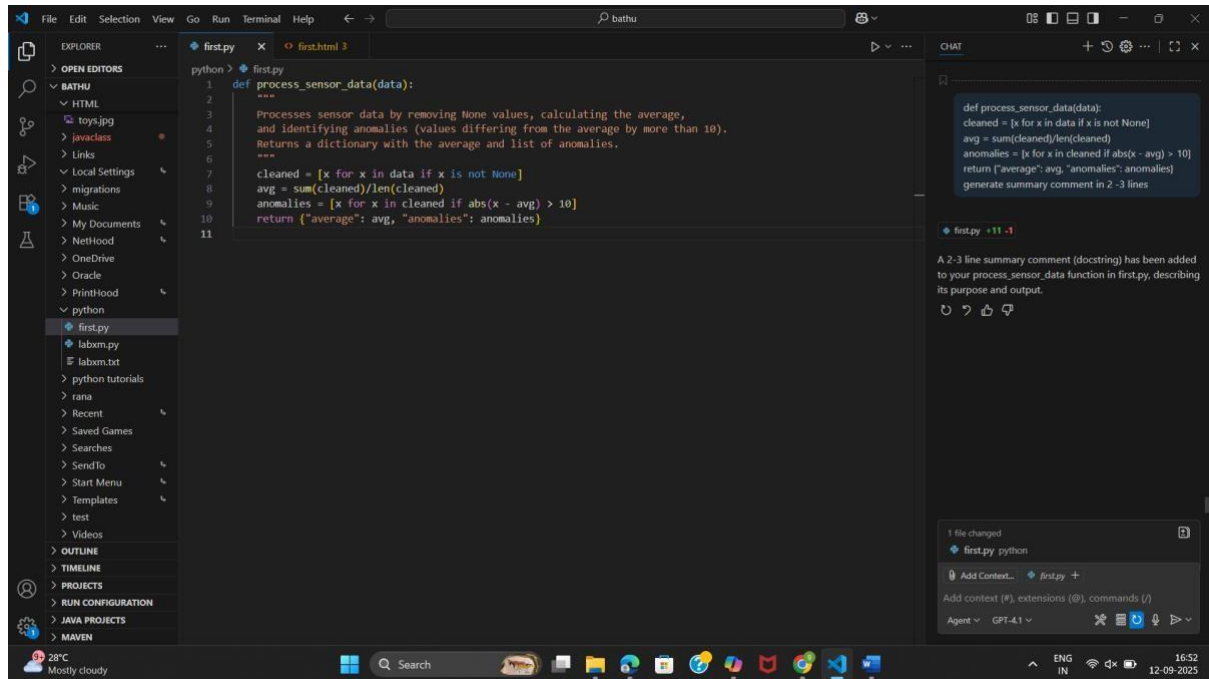
Scenario: You are reviewing a colleague's codebase containing long functions.

def process_sensor_data(data):

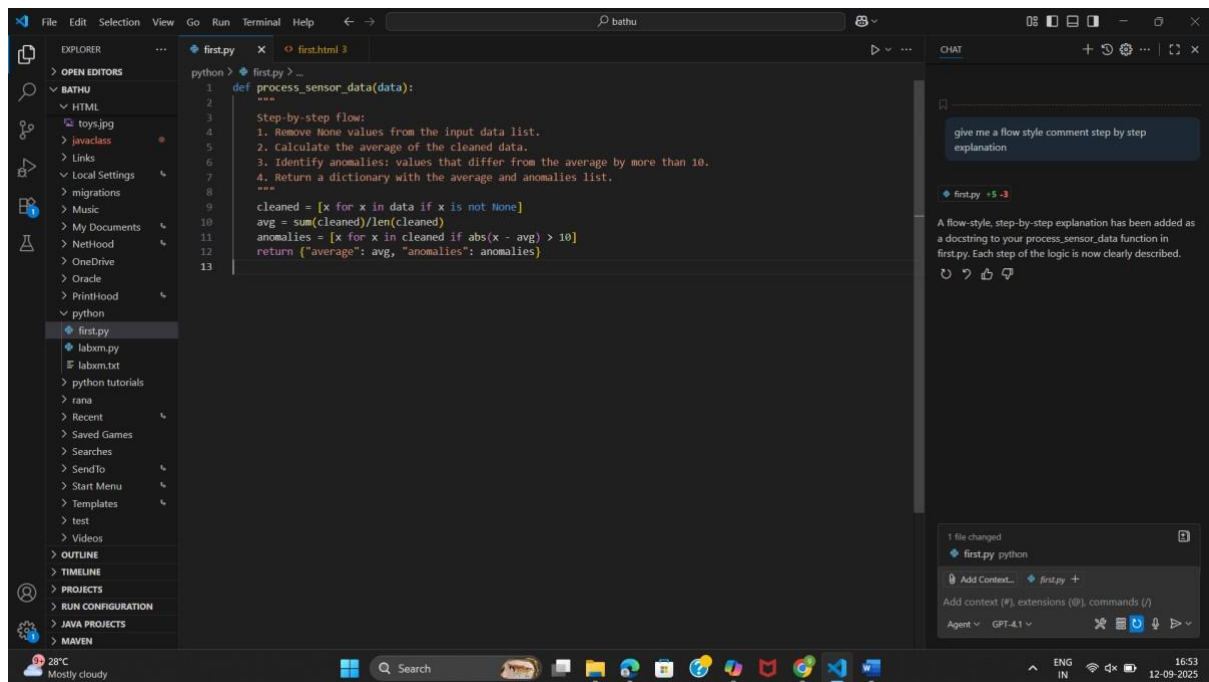
```

cleaned = [x for x in data if x is not None]
avg = sum(cleaned)/len(cleaned)
anomalies = [x for x in cleaned if abs(x - avg) > 10]
return {"average": avg, "anomalies": anomalies}

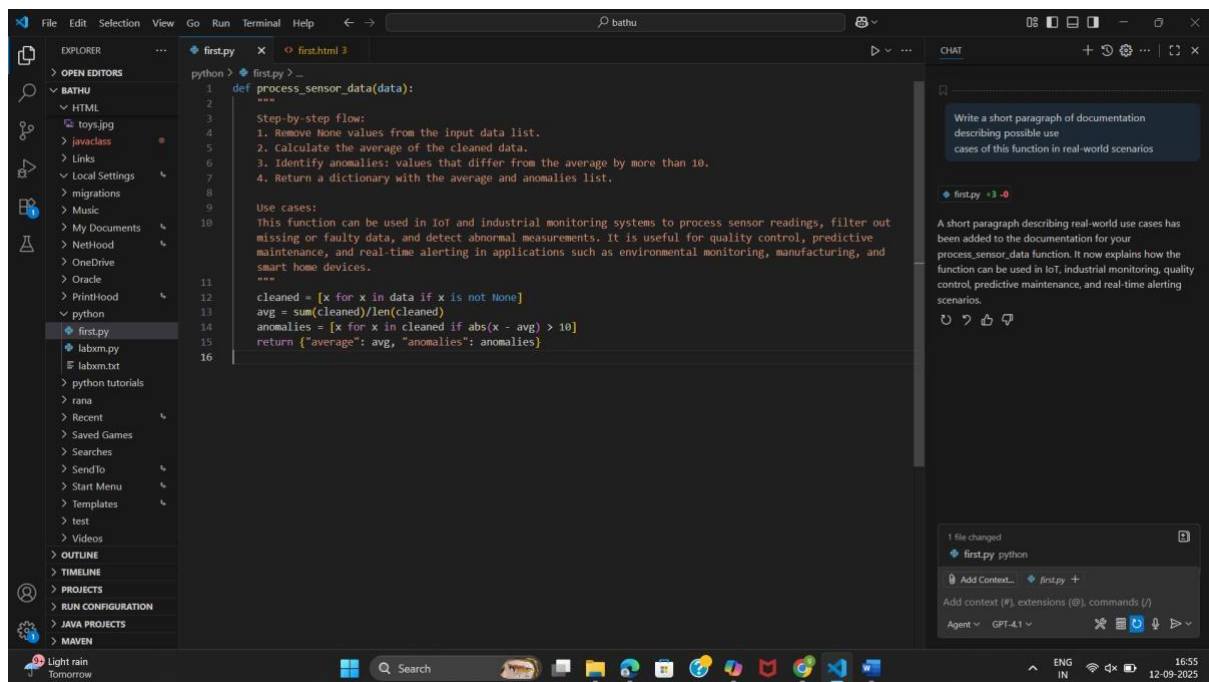
```



Flow-style comments:



Describing in real world scenarios:-

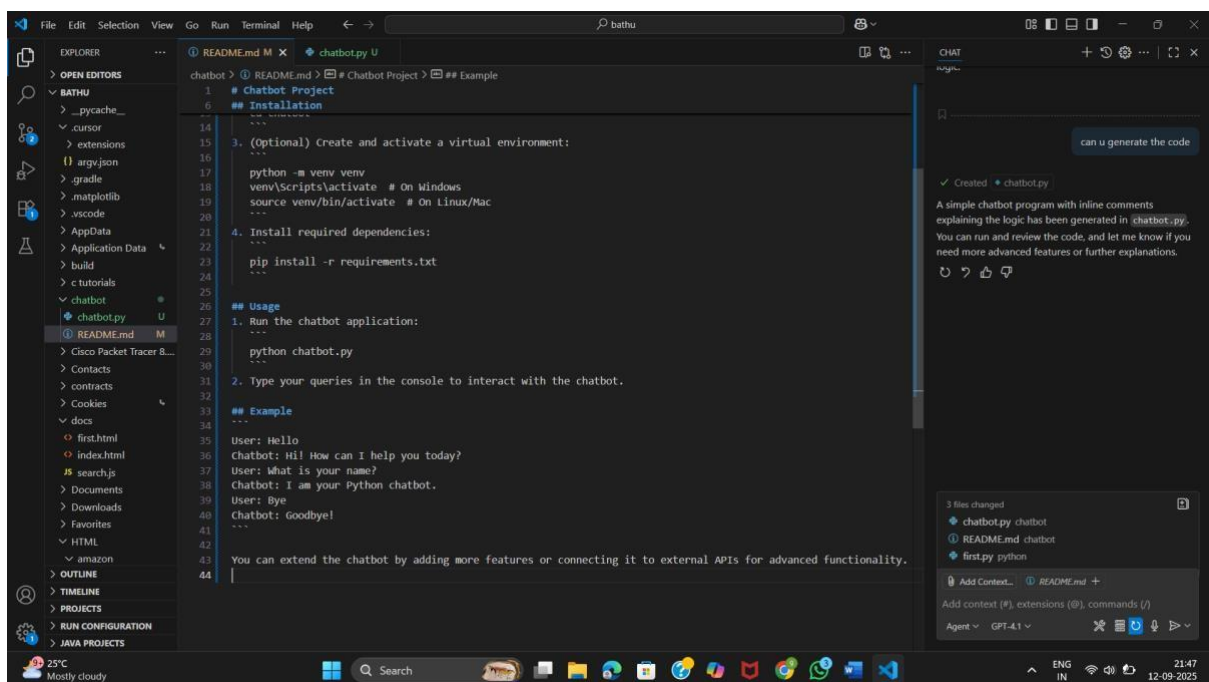
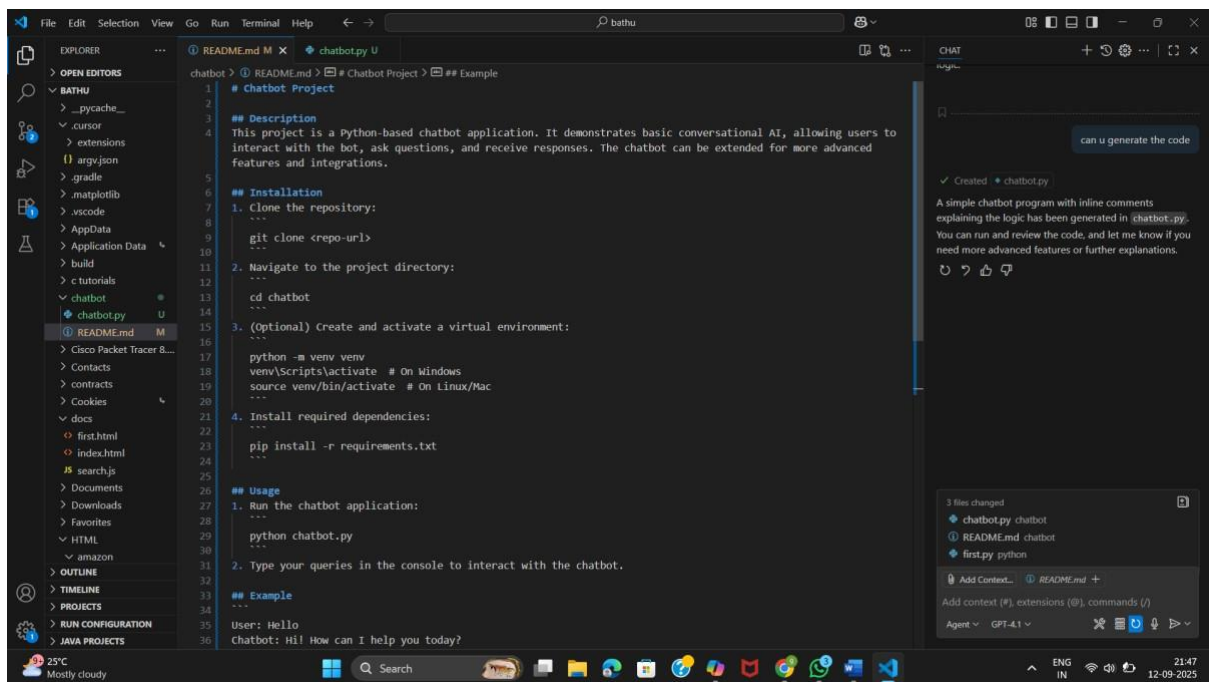


Task 4:-

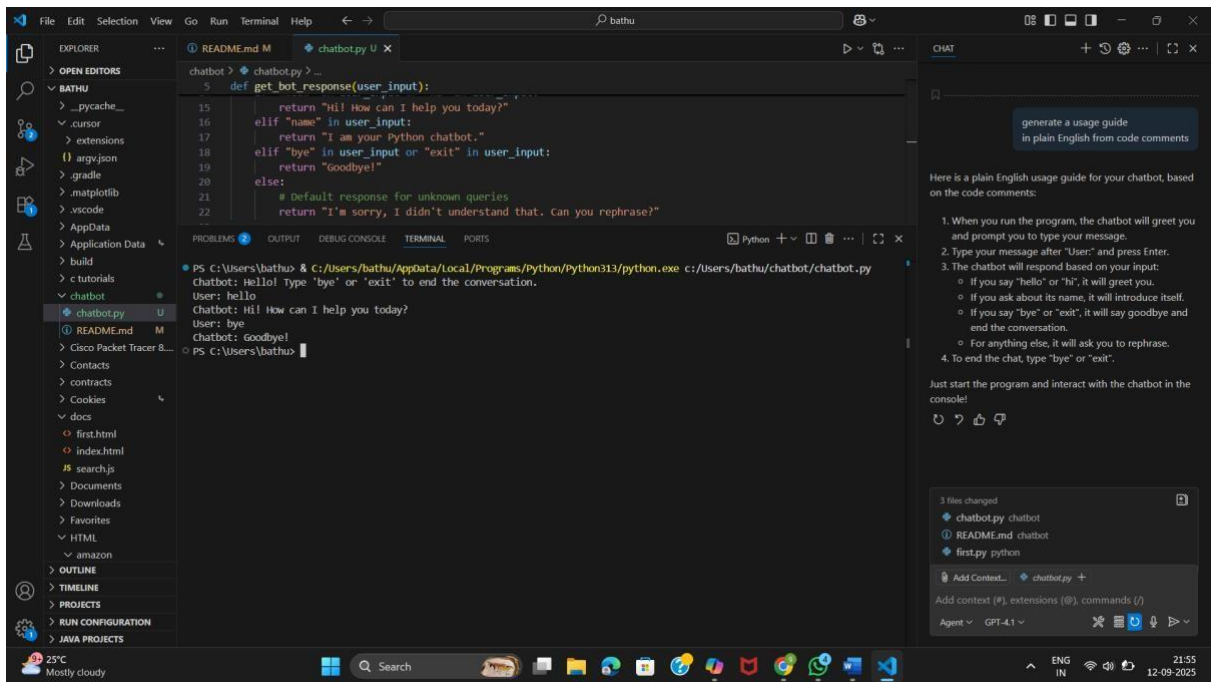
Scenario: You are part of a project team that develops a Chatbot

Application. The team needs documentation for maintainability.

a README.md file for the chatbot project:



Inline comments which focuses on explaining logic:



Code comments in plane English using AI:

