2303A52315

BATCH 45

ASS 2.5

Task 1: Refactoring Odd/Even Logic (List Version)

❖ Scenario:

You are improving legacy code.

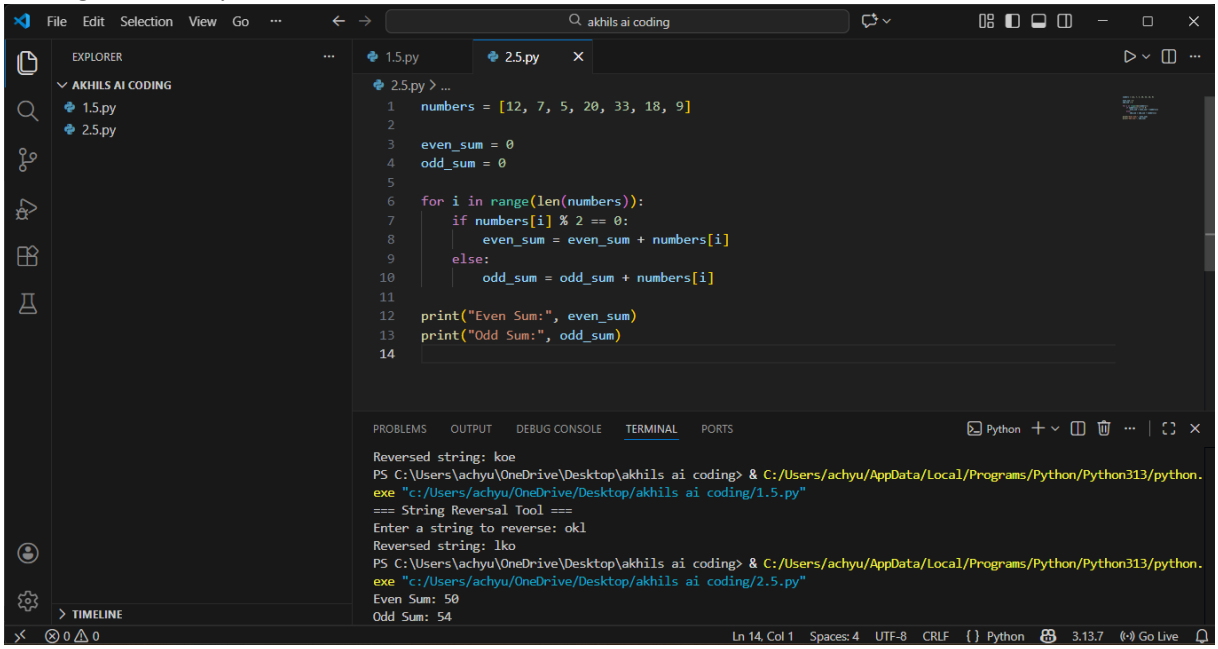
❖ Task:

Write a program to calculate the sum of odd and even numbers in a list,

then refactor it using AI.

❖ Expected Output:

❖ Original and improved code



Task 2: Area Calculation Explanation

❖ Scenario:

You are onboarding a junior developer.

❖ Task:

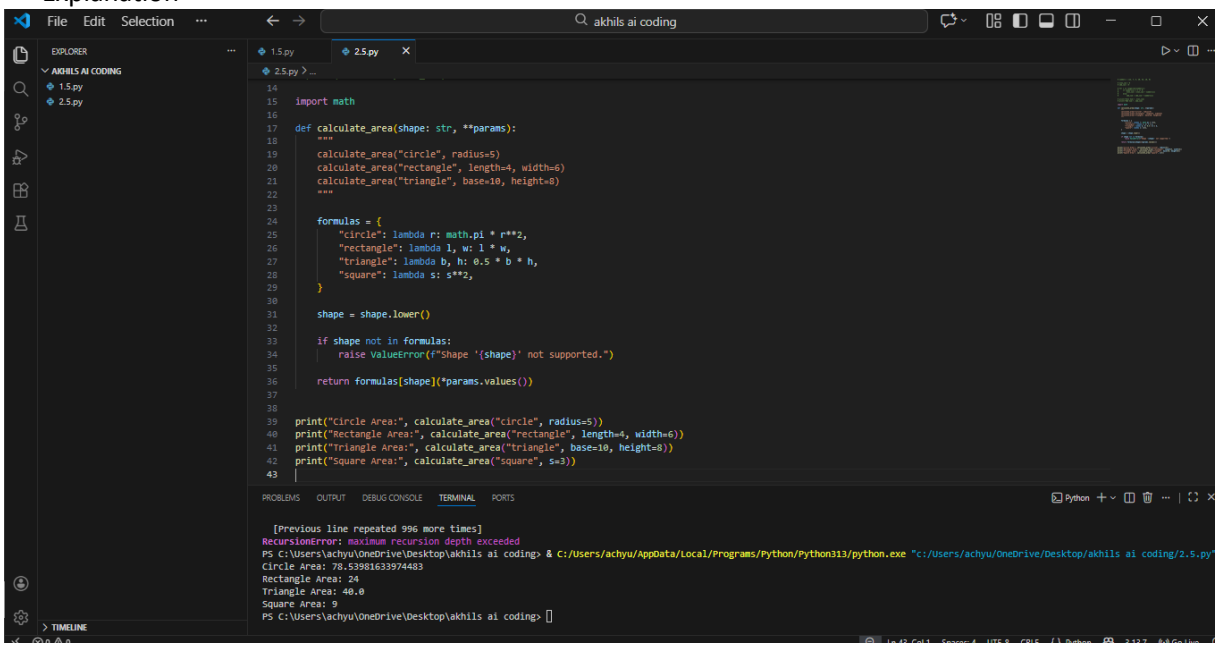
Ask Gemini to explain a function that calculates the area of different

shapes.

❖ Expected Output:

➢ Code

➢ Explanation



Task 3: Prompt Sensitivity Experiment

❖ Scenario:

You are testing how AI responds to different prompts.

❖ Task:

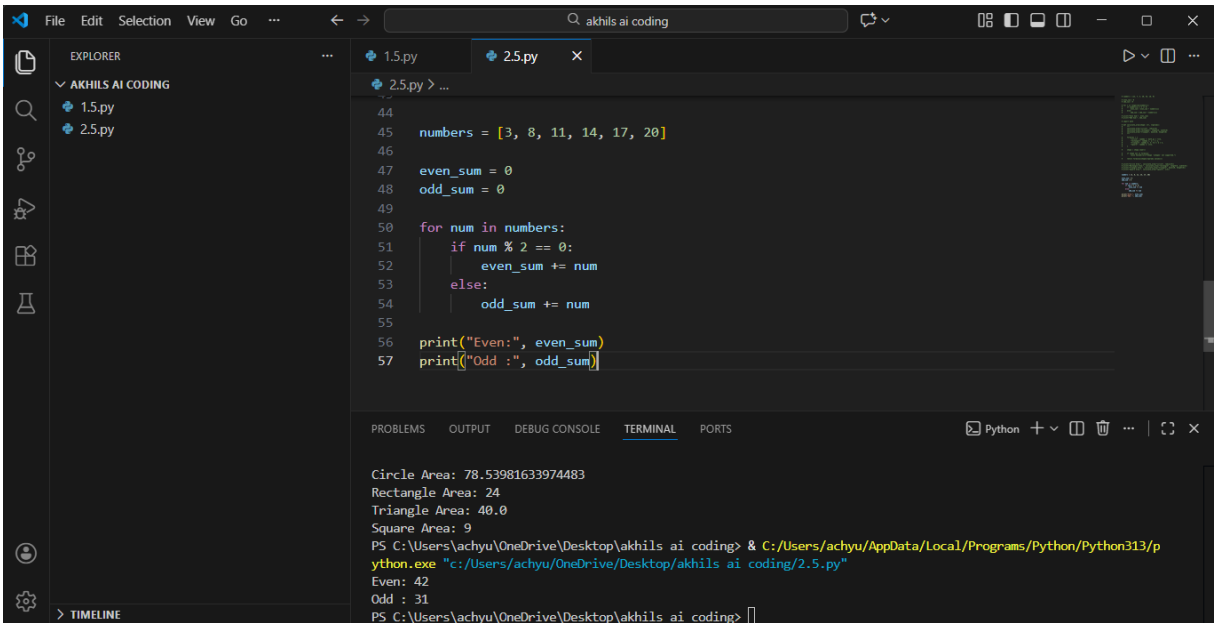
Use Cursor AI with different prompts for the same problem and observe

code changes.

❖ Expected Output:

➢ Prompt list

➢ Code variations



Task 4: Tool Comparison Reflection

❖ Scenario:

You must recommend an AI coding tool.

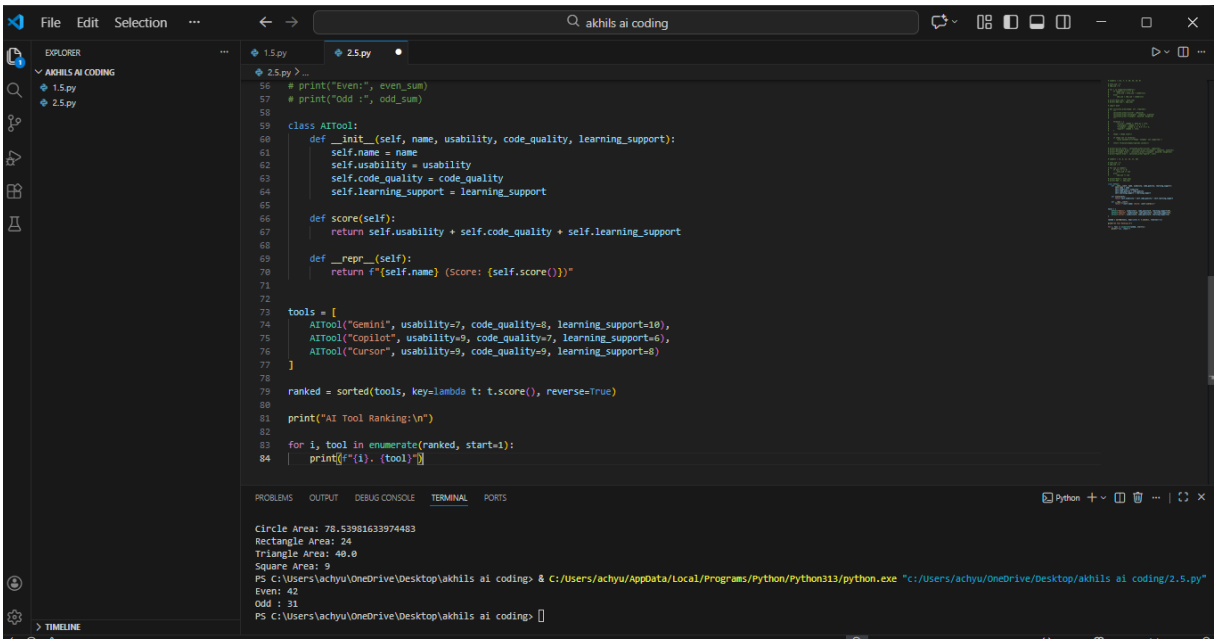
❖ Task:

Based on your work in this topic, compare Gemini, Copilot, and Cursor AI

for usability and code quality.

❖ Expected Output:

Short written reflection


File Edit Selection
akhils ai coding
EXPLORER
AKHILS AI CODING
1.5.py
2.5.py
# print("Even:", even_sum)
# print("Odd :", odd_sum)
class AITool:
def __init__(self, name, usability, code_quality, learning_support):
self.name = name
self.usability = usability
self.code_quality = code_quality
self.learning_support = learning_support
def score(self):
return self.usability + self.code_quality + self.learning_support
def __repr__(self):
return f"{self.name} (Score: {self.score()})"
tools = [
AITool("Gemini", usability=7, code_quality=8, learning_support=10),
AITool("Copilot", usability=9, code_quality=7, learning_support=6),
AITool("Cursor", usability=9, code_quality=9, learning_support=8)
]
ranked = sorted(tools, key=lambda t: t.score(), reverse=True)
print("AI Tool Ranking:\n")
for i, tool in enumerate(ranked, start=1):
print(f"{i}. {tool}")
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python
Circle Area: 78.53981633974483
Rectangle Area: 24
Triangle Area: 40.0
Square Area: 9
PS C:\Users\achyu\OneDrive\Desktop\akhils ai coding> & C:/Users/achyu/AppData/Local/Programs/Python/Python313/python.exe "c:/Users/achyu/OneDrive/Desktop/akhils ai coding/2.5.py"
Even: 42
Odd : 31
PS C:\Users\achyu\OneDrive\Desktop\akhils ai coding>
TIMELINE