AI ASSIGNMENT-6.5

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Hall No. : 2303A52464

Batch : 36

Task Description #1 (AI-Based Code Completion for Conditional Eligibility Check)

Task: Use an AI tool to generate eligibility logic.

Prompt:

“Generate Python code to check voting eligibility based on age and citizenship.”

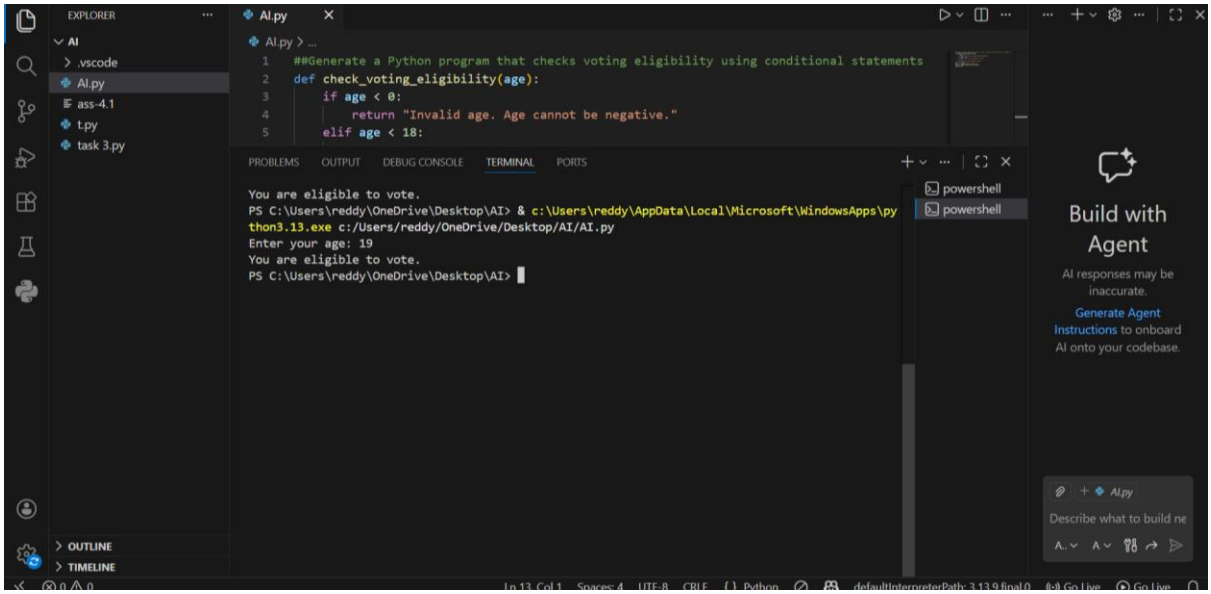
Expected Output:

• AI-generated conditional logic.

• Correct eligibility decisions.

• Explanation of conditions.

Output:



Task Description #2(AI-Based Code Completion for Loop-Based

String Processing)

Task: Use an AI tool to process strings using loops.

Prompt:

“Generate Python code to count vowels and consonants in a string

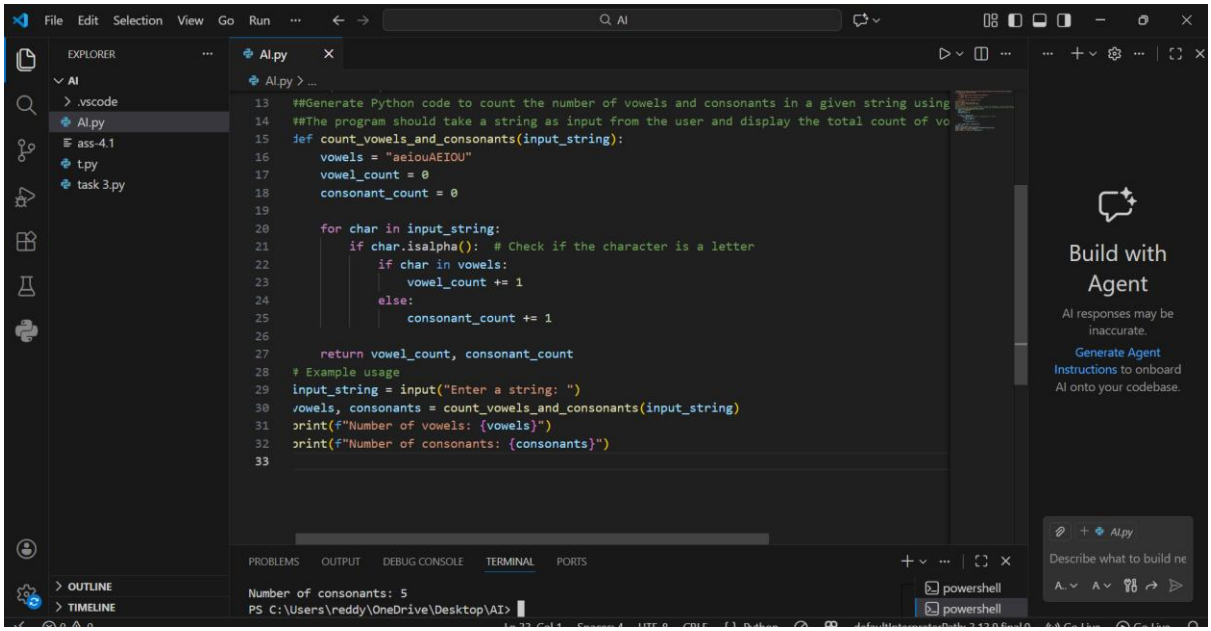
using a loop.”

Expected Output:

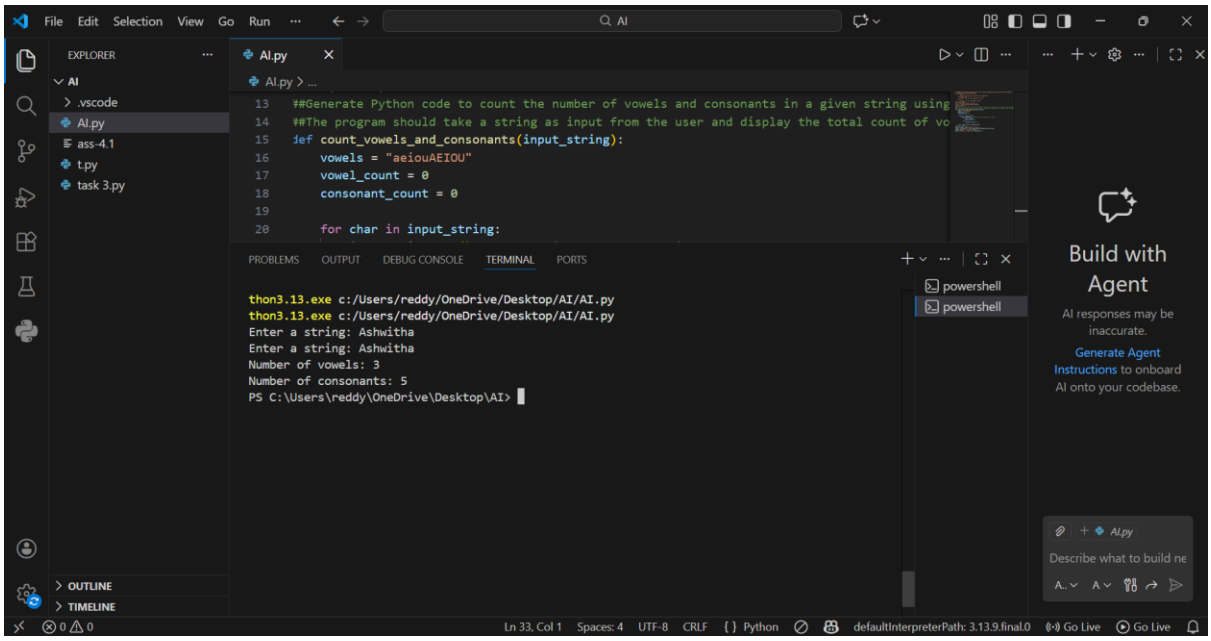
• AI-generated string processing logic.

• Correct counts.

• Output verification.



Output:



Task Description #3 (AI-Assisted Code Completion Reflection

Task)

Task: Use an AI tool to generate a complete program using classes,

loops, and conditionals.

Prompt:

“Generate a Python program for a library management system

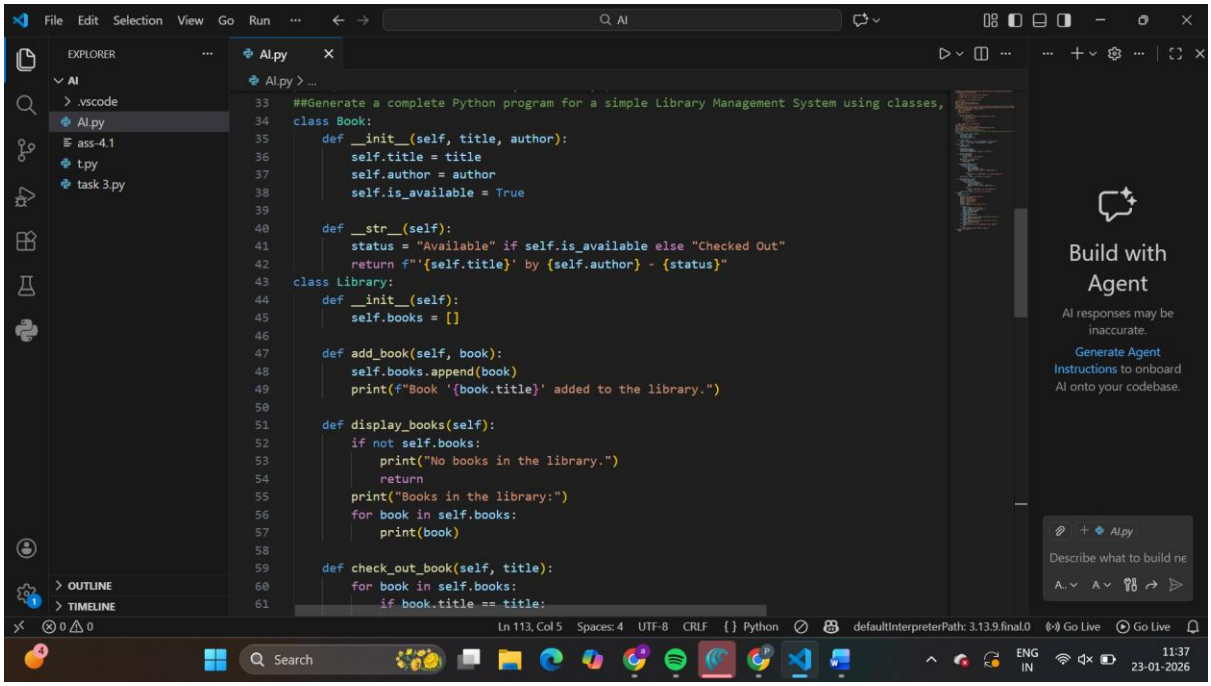
using classes, loops, and conditional statements.”

Expected Output:

• Complete AI-generated program.

• Review of AI suggestions quality.

• Short reflection on AI-assisted coding experience.


File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
OUTLINE
TIMELINE
AI.py
AI.py > ...
##Generate a complete Python program for a simple Library Management System using classes,
class Book:
def __init__(self, title, author):
self.title = title
self.author = author
self.is_available = True
def __str__(self):
status = "Available" if self.is_available else "Checked Out"
return f"'{self.title}' by {self.author} - {status}"
class Library:
def __init__(self):
self.books = []
def add_book(self, book):
self.books.append(book)
print(f"Book '{book.title}' added to the library.")
def display_books(self):
if not self.books:
print("No books in the library.")
return
print("Books in the library:")
for book in self.books:
print(book)
def check_out_book(self, title):
for book in self.books:
if book.title == title:
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
AI.py
Describe what to build ne
Ln 113, Col 5 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live Go Live
Search
ENG IN
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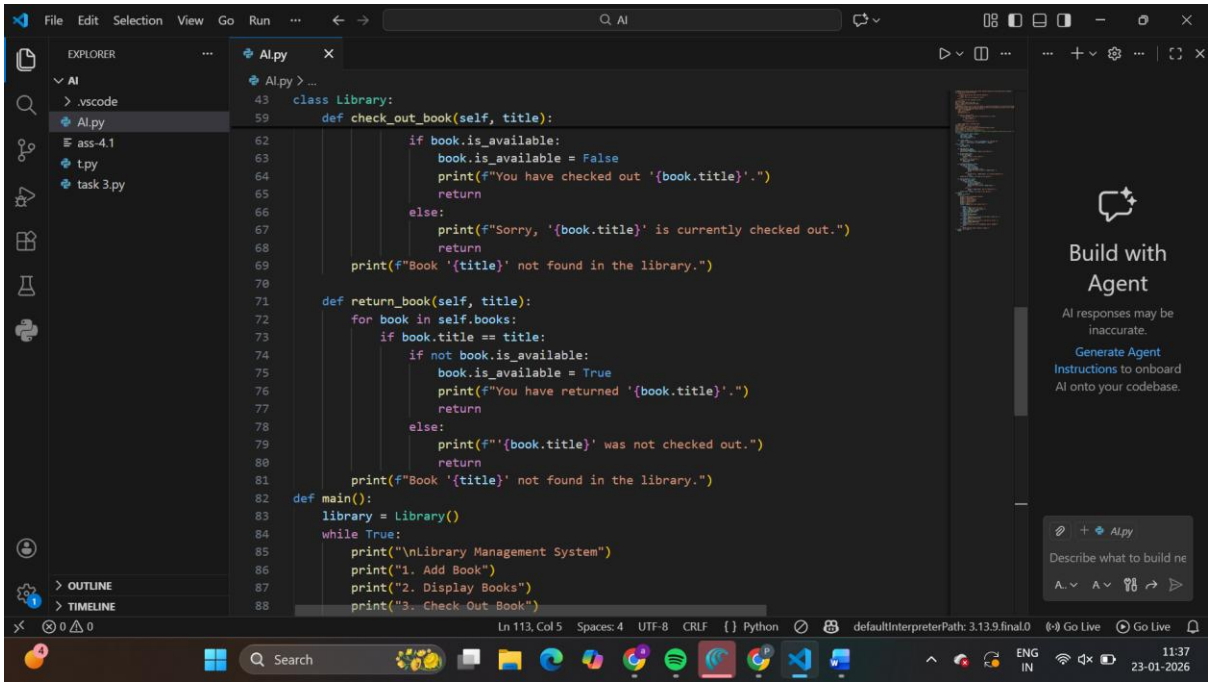
File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
OUTLINE
TIMELINE
AI.py
AI.py > ...
class Library:
def check_out_book(self, title):
if book.is_available:
book.is_available = False
print(f"You have checked out '{book.title}'.")
return
else:
print(f"Sorry, '{book.title}' is currently checked out.")
return
print(f"Book '{title}' not found in the library.")
def return_book(self, title):
for book in self.books:
if book.title == title:
if not book.is_available:
book.is_available = True
print(f"You have returned '{book.title}'.")
return
else:
print(f"'{book.title}' was not checked out.")
return
print(f"Book '{title}' not found in the library.")
def main():
library = Library()
while True:
print("\nLibrary Management System")
print("1. Add Book")
print("2. Display Books")
print("3. Check Out Book")
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
AI.py
Describe what to build ne
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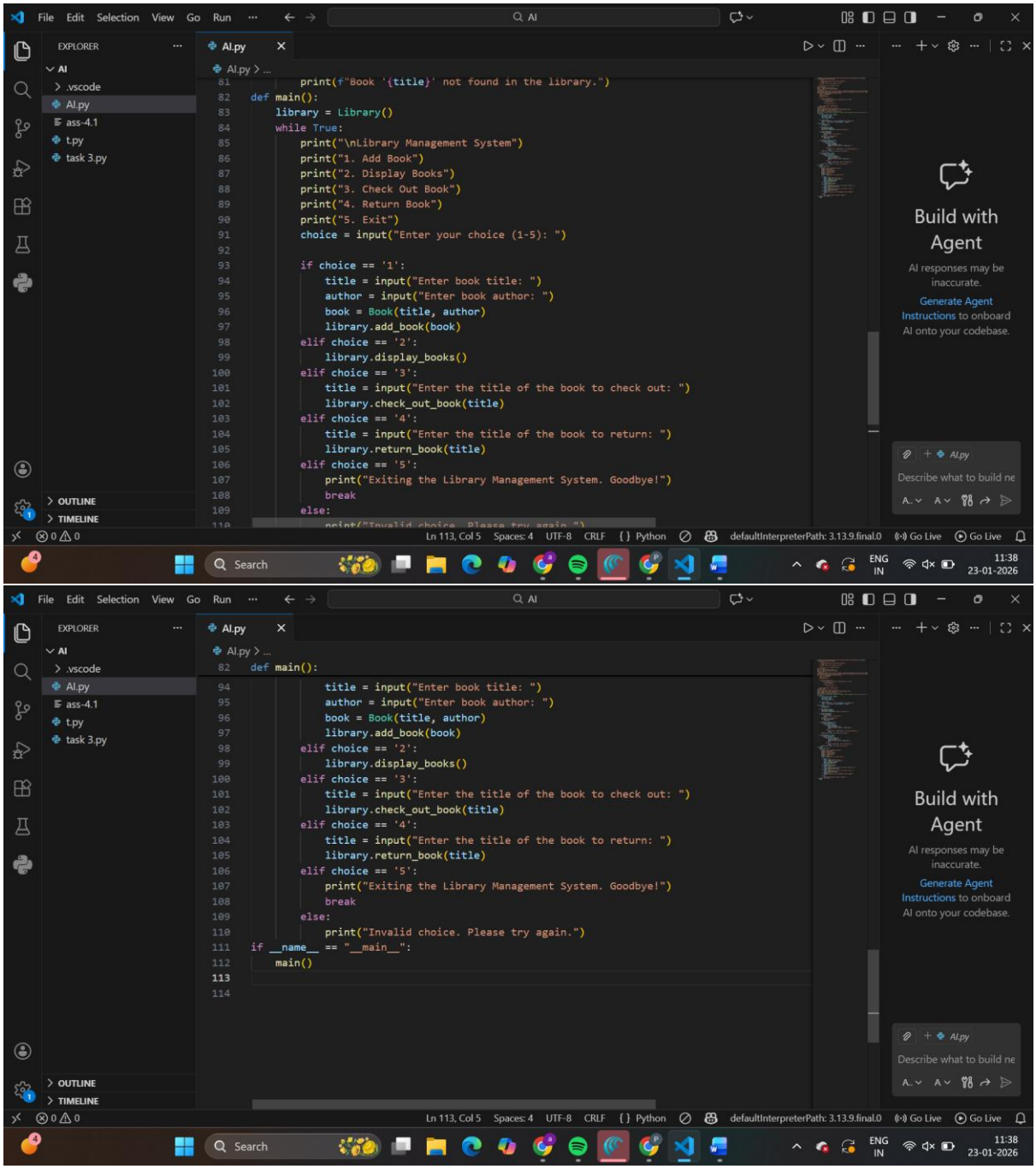
File Edit Selection View Go Run
AI
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AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
OUTLINE
TIMELINE
AI.py
print(f"Book '{title}' not found in the library.")
def main():
library = Library()
while True:
print("\nLibrary Management System")
print("1. Add Book")
print("2. Display Books")
print("3. Check Out Book")
print("4. Return Book")
print("5. Exit")
choice = input("Enter your choice (1-5): ")
if choice == '1':
title = input("Enter book title: ")
author = input("Enter book author: ")
book = Book(title, author)
library.add_book(book)
elif choice == '2':
library.display_books()
elif choice == '3':
title = input("Enter the title of the book to check out: ")
library.check_out_book(title)
elif choice == '4':
title = input("Enter the title of the book to return: ")
library.return_book(title)
elif choice == '5':
print("Exiting the Library Management System. Goodbye!")
break
else:
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
Describe what to build ne
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File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
OUTLINE
TIMELINE
AI.py
def main():
title = input("Enter book title: ")
author = input("Enter book author: ")
book = Book(title, author)
library.add_book(book)
elif choice == '2':
library.display_books()
elif choice == '3':
title = input("Enter the title of the book to check out: ")
library.check_out_book(title)
elif choice == '4':
title = input("Enter the title of the book to return: ")
library.return_book(title)
elif choice == '5':
print("Exiting the Library Management System. Goodbye!")
break
else:
print("Invalid choice. Please try again.")
if __name__ == "__main__":
main()
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
Describe what to build ne
Ln 113, Col 5 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live
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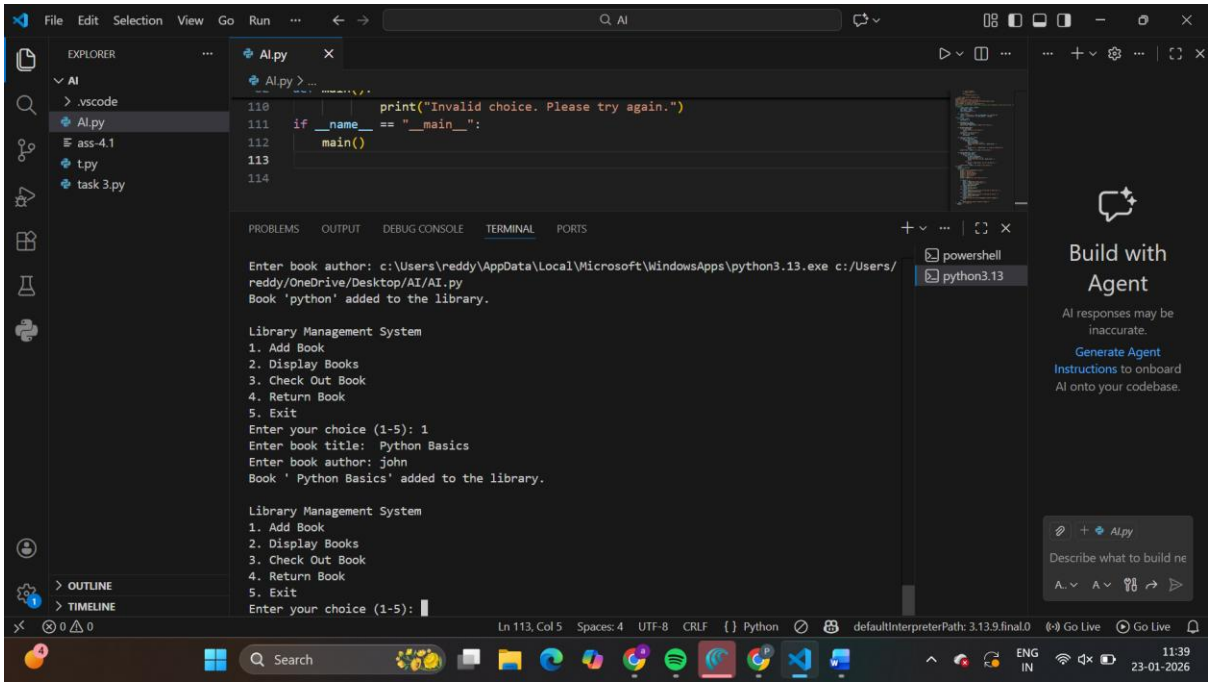
Output:



Task Description #4 (AI-Assisted Code Completion for Class-

Based Attendance System)

Task: Use an AI tool to generate an attendance management class.

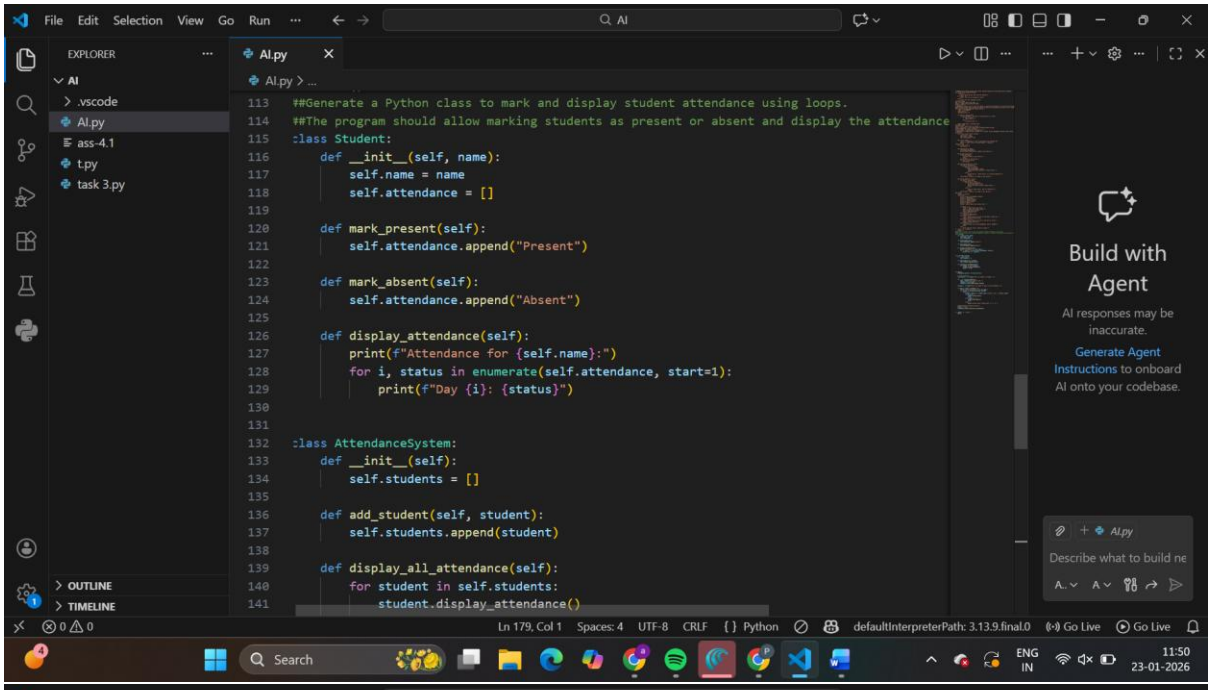
Prompt: “Generate a Python class to mark and display student

attendance using loops.”

Expected Output:

• AI-generated attendance logic.

• Correct display of attendance.


File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
AI.py
AI.py > ...
##Generate a Python class to mark and display student attendance using loops.
##The program should allow marking students as present or absent and display the attendance
class Student:
def __init__(self, name):
self.name = name
self.attendance = []
def mark_present(self):
self.attendance.append("Present")
def mark_absent(self):
self.attendance.append("Absent")
def display_attendance(self):
print(f"Attendance for {self.name}:")
for i, status in enumerate(self.attendance, start=1):
print(f"Day {i}: {status}")
class AttendanceSystem:
def __init__(self):
self.students = []
def add_student(self, student):
self.students.append(student)
def display_all_attendance(self):
for student in self.students:
student.display_attendance()
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
Describe what to build ne
OUTLINE
TIMELINE
Ln 179, Col 1 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live
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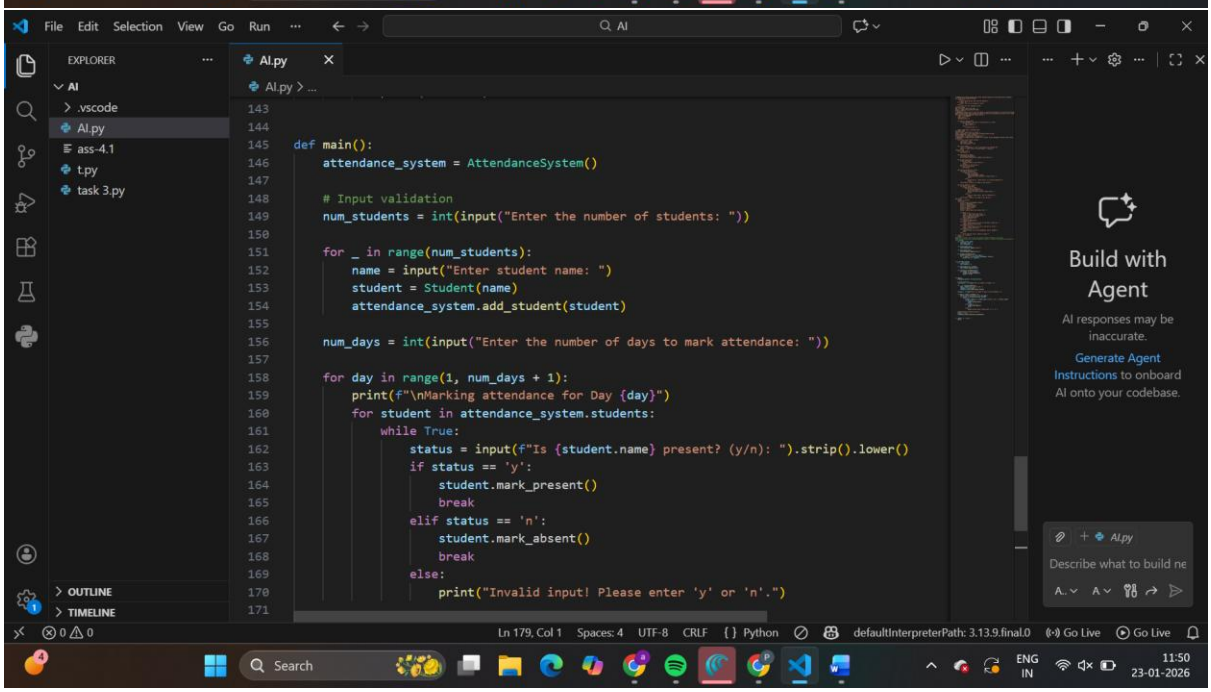
File Edit Selection View Go Run
AI
EXPLORER
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AI.py
ass-4.1
t.py
task 3.py
AI.py
AI.py > ...
def main():
attendance_system = AttendanceSystem()
# Input validation
num_students = int(input("Enter the number of students: "))
for _ in range(num_students):
name = input("Enter student name: ")
student = Student(name)
attendance_system.add_student(student)
num_days = int(input("Enter the number of days to mark attendance: "))
for day in range(1, num_days + 1):
print(f"\nMarking attendance for Day {day}")
for student in attendance_system.students:
while True:
status = input(f"Is {student.name} present? (y/n): ").strip().lower()
if status == 'y':
student.mark_present()
break
elif status == 'n':
student.mark_absent()
break
else:
print("Invalid input! Please enter 'y' or 'n'.")
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
Describe what to build ne
OUTLINE
TIMELINE
Ln 179, Col 1 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live
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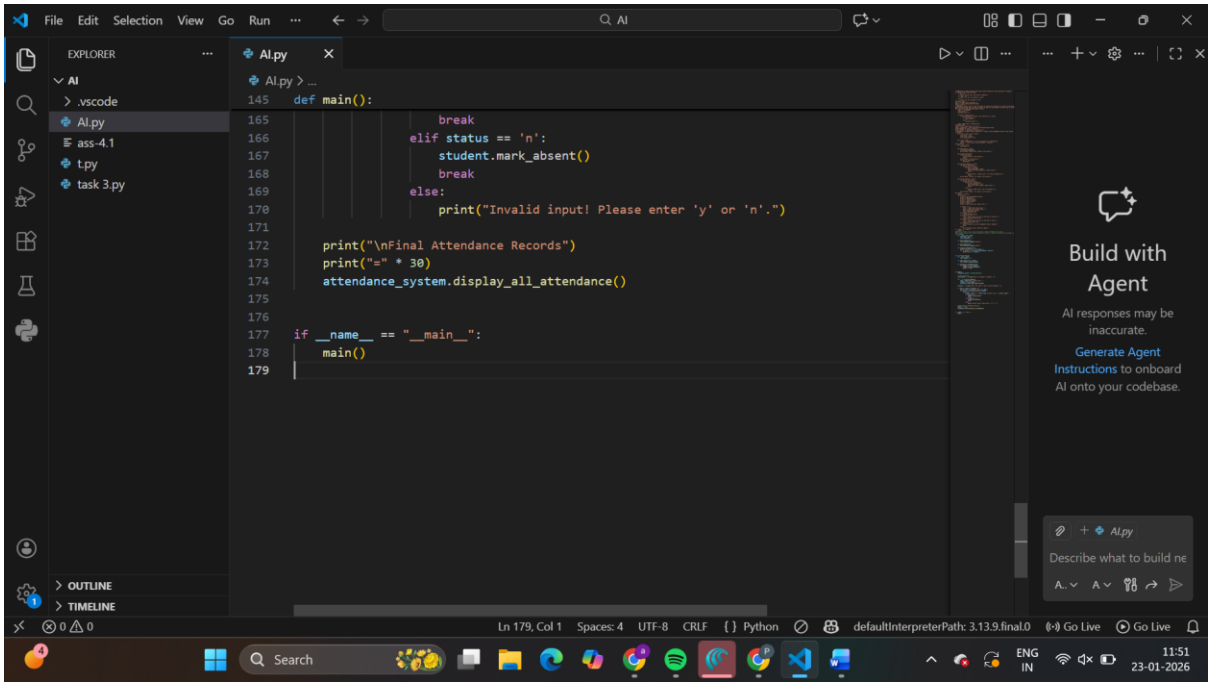
File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
AI.py
AI.py > ...
def main():
break
elif status == 'n':
student.mark_absent()
break
else:
print("Invalid input! Please enter 'y' or 'n'.")
print("\nFinal Attendance Records")
print("=" * 30)
attendance_system.display_all_attendance()
if __name__ == "__main__":
main()
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
Describe what to build ne
OUTLINE
TIMELINE
Ln 179, Col 1 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live Go Live
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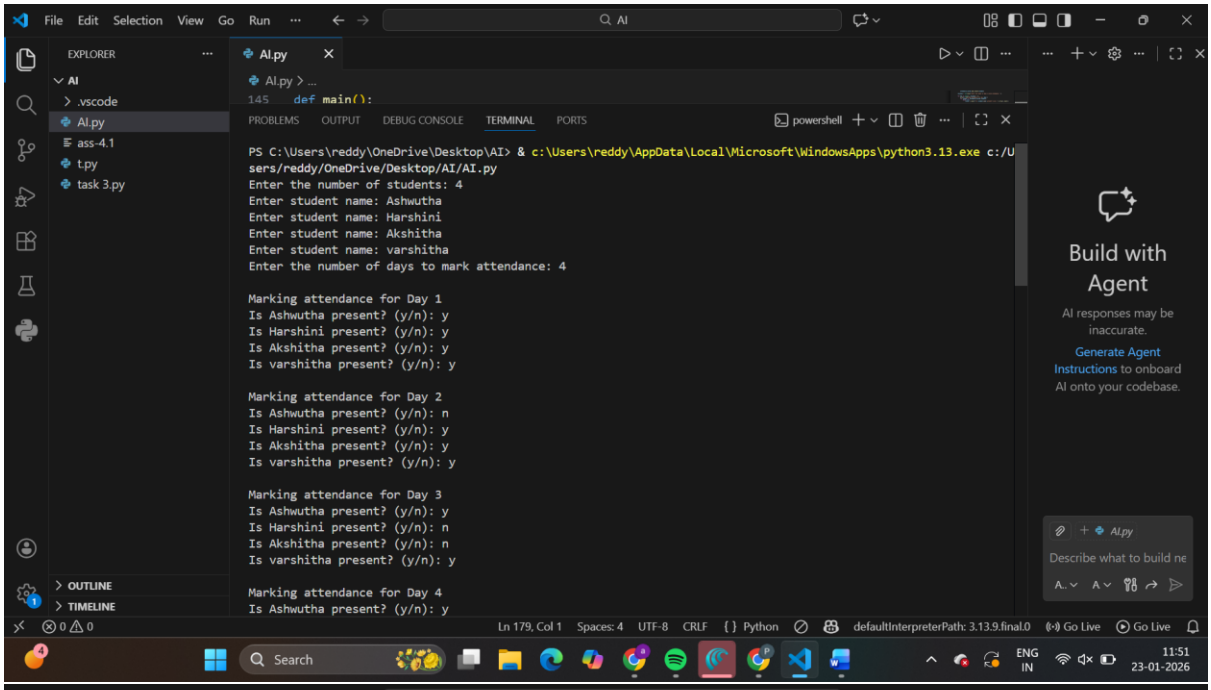
Output:


File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
AI.py
AI.py > ...
145 def main():
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
PS C:\Users\reddy\OneDrive\Desktop\AI> & c:\Users\reddy\AppData\Local\Microsoft\WindowsApps\python3.13.exe c:/Users/reddy/OneDrive/Desktop/AI/AI.py
Enter the number of students: 4
Enter student name: Ashwutha
Enter student name: Harshini
Enter student name: Akshitha
Enter student name: varshitha
Enter the number of days to mark attendance: 4
Marking attendance for Day 1
Is Ashwutha present? (y/n): y
Is Harshini present? (y/n): y
Is Akshitha present? (y/n): y
Is varshitha present? (y/n): y
Marking attendance for Day 2
Is Ashwutha present? (y/n): n
Is Harshini present? (y/n): y
Is Akshitha present? (y/n): y
Is varshitha present? (y/n): y
Marking attendance for Day 3
Is Ashwutha present? (y/n): y
Is Harshini present? (y/n): n
Is Akshitha present? (y/n): n
Is varshitha present? (y/n): y
Marking attendance for Day 4
Is Ashwutha present? (y/n): y
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
Describe what to build ne
OUTLINE
TIMELINE
Ln 179, Col 1 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live
Search
ENG IN
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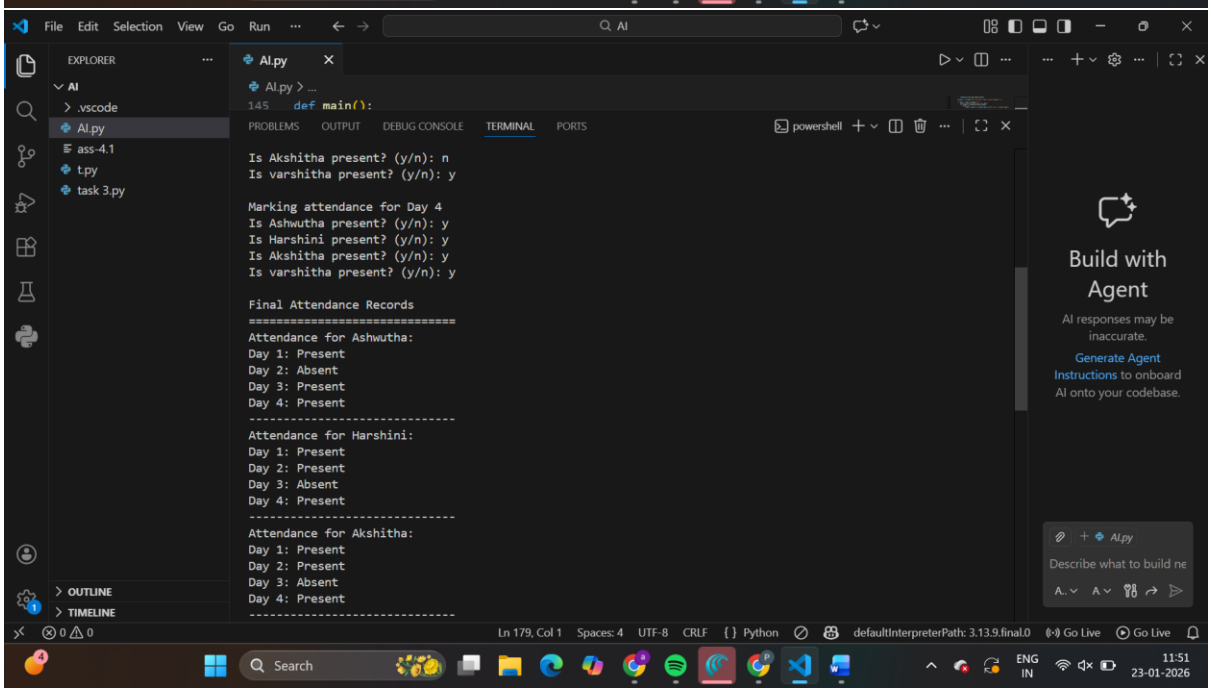
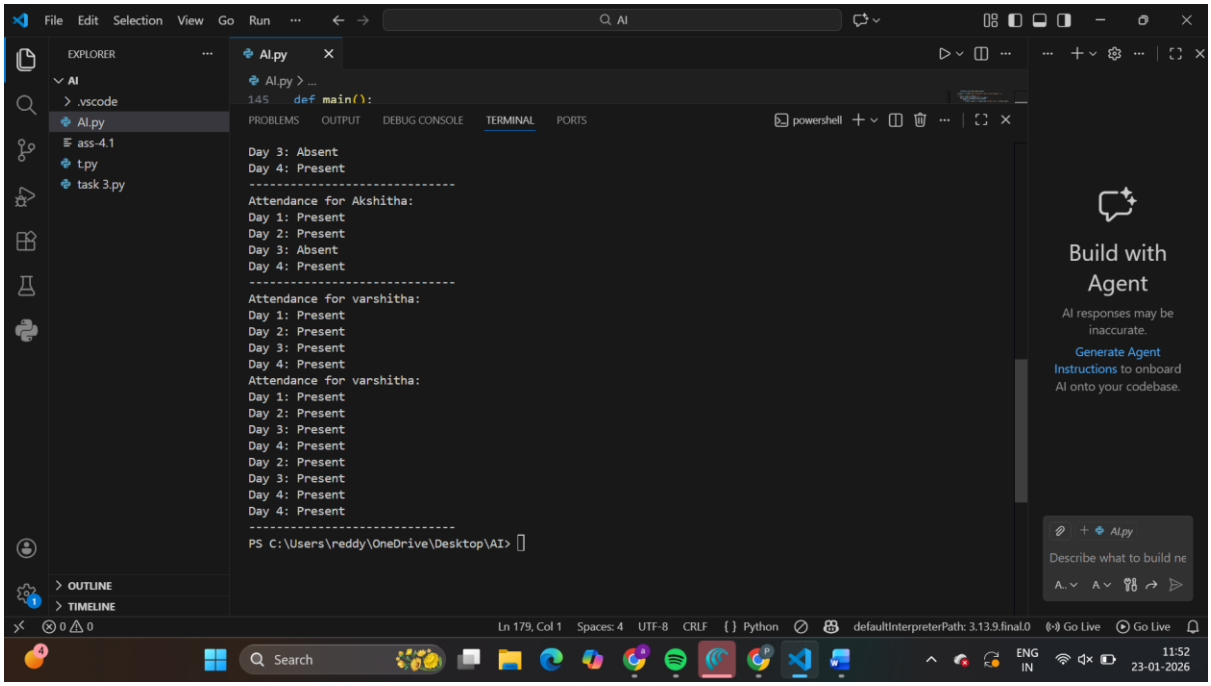

File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
AI.py
AI.py > ...
145 def main():
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
powershell
Is Akshitha present? (y/n): n
Is varshitha present? (y/n): y
Marking attendance for Day 4
Is Ashwutha present? (y/n): y
Is Harshini present? (y/n): y
Is Akshitha present? (y/n): y
Is varshitha present? (y/n): y
Final Attendance Records
==============================
Attendance for Ashwutha:
Day 1: Present
Day 2: Absent
Day 3: Present
Day 4: Present

Attendance for Harshini:
Day 1: Present
Day 2: Present
Day 3: Absent
Day 4: Present

Attendance for Akshitha:
Day 1: Present
Day 2: Present
Day 3: Absent
Day 4: Present

Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
Describe what to build ne
OUTLINE
TIMELINE
Ln 179, Col 1 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live
Search
ENG IN
11:51 23-01-2026



Task Description #5 (AI-Based Code Completion for Conditional

Menu Navigation)

Task: Use an AI tool to complete a navigation menu.

Prompt: “Generate a Python program using loops and conditionals

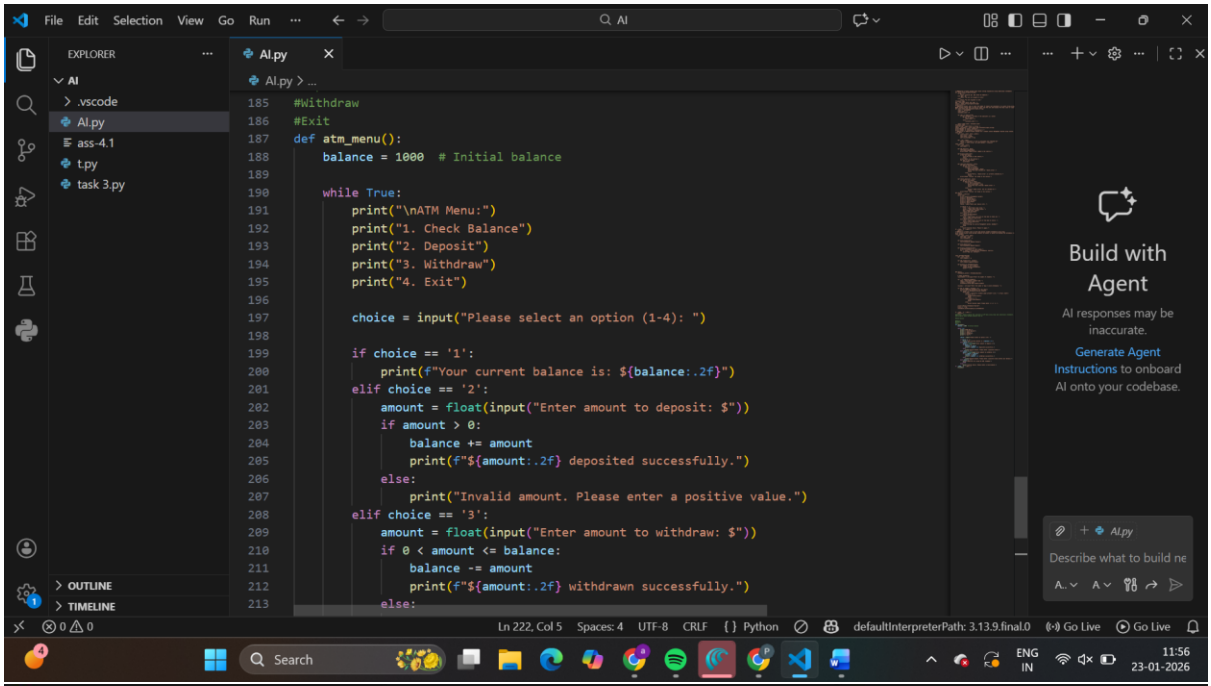
to simulate an ATM menu.”

Expected Output:

• AI-generated menu logic.

• Correct option handling.

• Output verification.


File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
OUTLINE
TIMELINE
AI.py
AI.py > ...
185 #Withdraw
186 #Exit
187 def atm_menu():
188 balance = 1000 # Initial balance
189
190 while True:
191 print("\nATM Menu:")
192 print("1. Check Balance")
193 print("2. Deposit")
194 print("3. Withdraw")
195 print("4. Exit")
196
197 choice = input("Please select an option (1-4): ")
198
199 if choice == '1':
200 print(f"Your current balance is: ${balance:.2f}")
201 elif choice == '2':
202 amount = float(input("Enter amount to deposit: $"))
203 if amount > 0:
204 balance += amount
205 print(f"${amount:.2f} deposited successfully.")
206 else:
207 print("Invalid amount. Please enter a positive value.")
208 elif choice == '3':
209 amount = float(input("Enter amount to withdraw: $"))
210 if 0 < amount <= balance:
211 balance -= amount
212 print(f"${amount:.2f} withdrawn successfully.")
213 else:
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
Describe what to build ne
Ln 222, Col 5 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live
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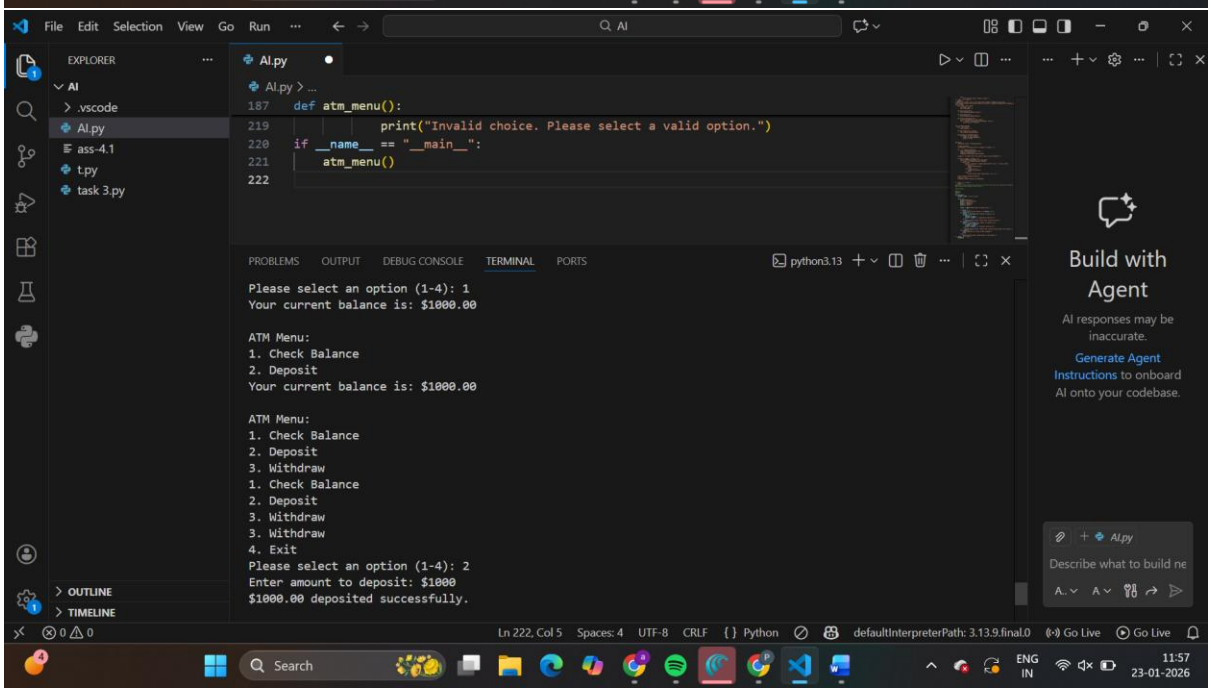
File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
OUTLINE
TIMELINE
AI.py
AI.py > ...
187 def atm_menu():
219 print("Invalid choice. Please select a valid option.")
220 if __name__ == "__main__":
221 atm_menu()
222
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
python3.13
Please select an option (1-4): 1
Your current balance is: $1000.00
ATM Menu:
1. Check Balance
2. Deposit
Your current balance is: $1000.00
ATM Menu:
1. Check Balance
2. Deposit
3. Withdraw
1. Check Balance
2. Deposit
3. Withdraw
3. Withdraw
4. Exit
Please select an option (1-4): 2
Enter amount to deposit: $1000
$1000.00 deposited successfully.
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
Describe what to build ne
Ln 222, Col 5 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live
Search
ENG IN
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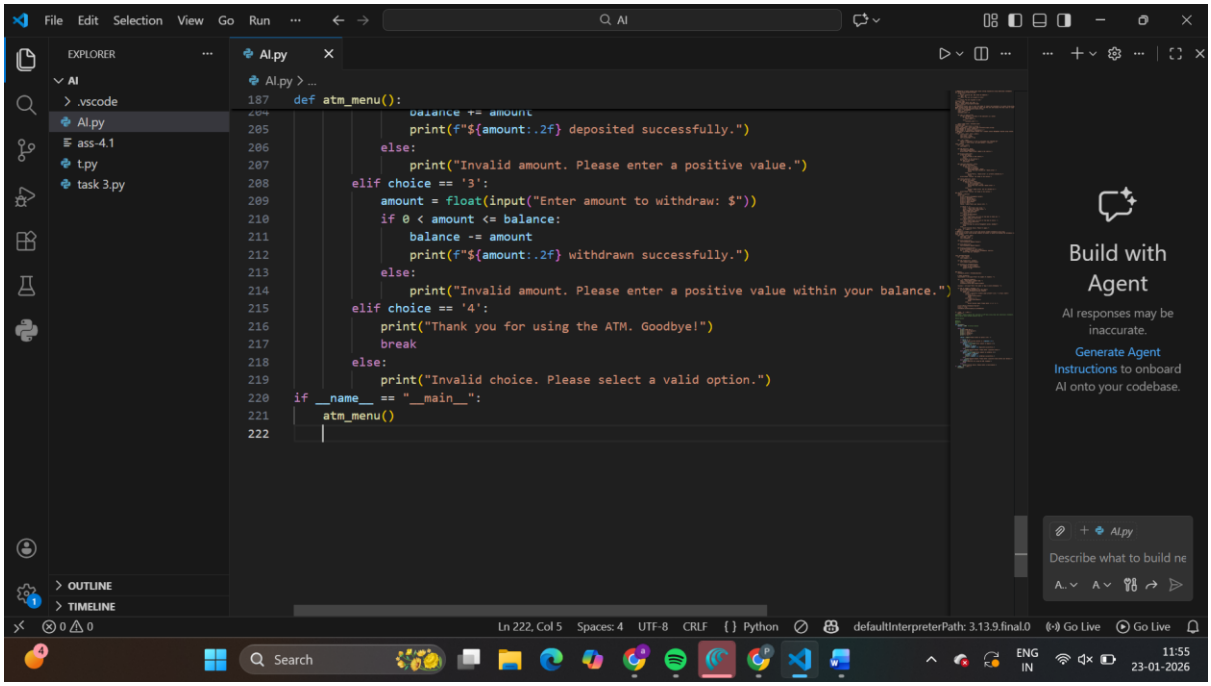
File Edit Selection View Go Run
AI
EXPLORER
AI
.vscode
AI.py
ass-4.1
t.py
task 3.py
AI.py
AI.py > ...
def atm_menu():
print(f"${amount:.2f} deposited successfully.")
else:
print("Invalid amount. Please enter a positive value.")
elif choice == '3':
amount = float(input("Enter amount to withdraw: $"))
if 0 < amount <= balance:
balance -= amount
print(f"${amount:.2f} withdrawn successfully.")
else:
print("Invalid amount. Please enter a positive value within your balance.")
elif choice == '4':
print("Thank you for using the ATM. Goodbye!")
break
else:
print("Invalid choice. Please select a valid option.")
if __name__ == "__main__":
atm_menu()
OUTLINE
TIMELINE
Build with Agent
AI responses may be inaccurate.
Generate Agent Instructions to onboard AI onto your codebase.
AI.py
Describe what to build ne
Ln 222, Col 5 Spaces: 4 UTF-8 CRLF { } Python defaultInterpreterPath: 3.13.9.final.0 Go Live Go Live
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ENG IN
11:55 23-01-2026