Python Assignment - 1
School of Engineering & Technology

Department: SOET	**Session:** 2025-26
Program: MCA (AI & ML)	**Semester:** 1
Course Code: ETCCPP171	**College Roll no:** 2501940074
Course Name: Programming for Problem Solving Using Python	
Submitted by: Khushi	**Faculty:** Ms. Neha Kaushik

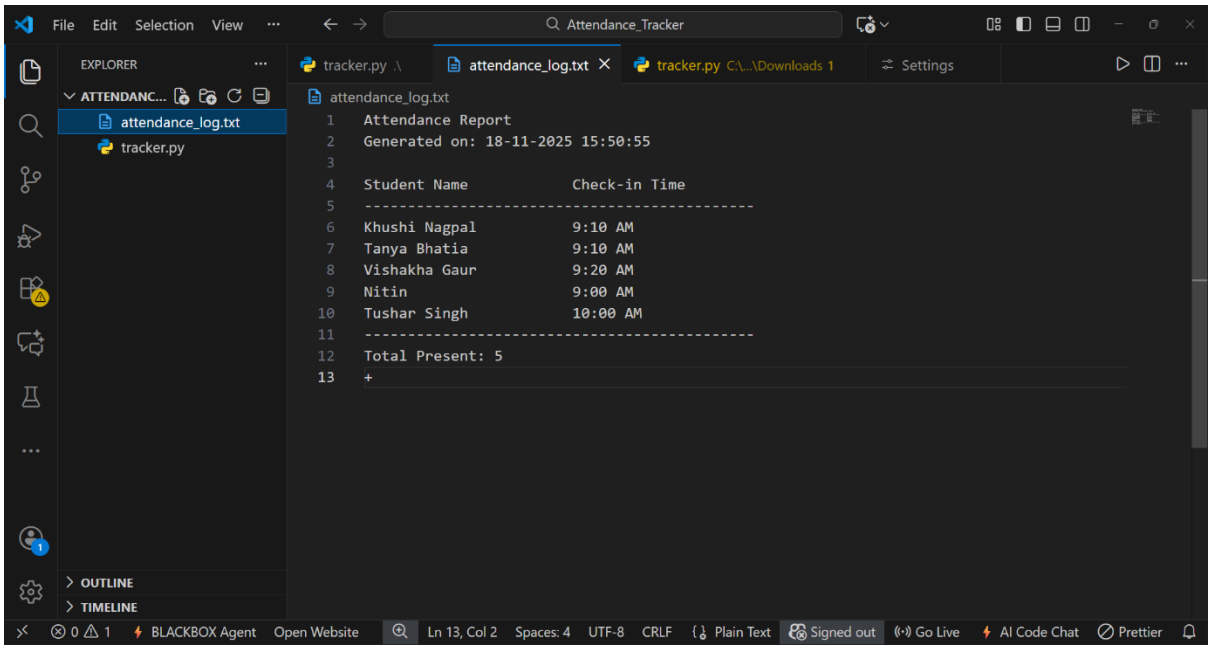
Input:-

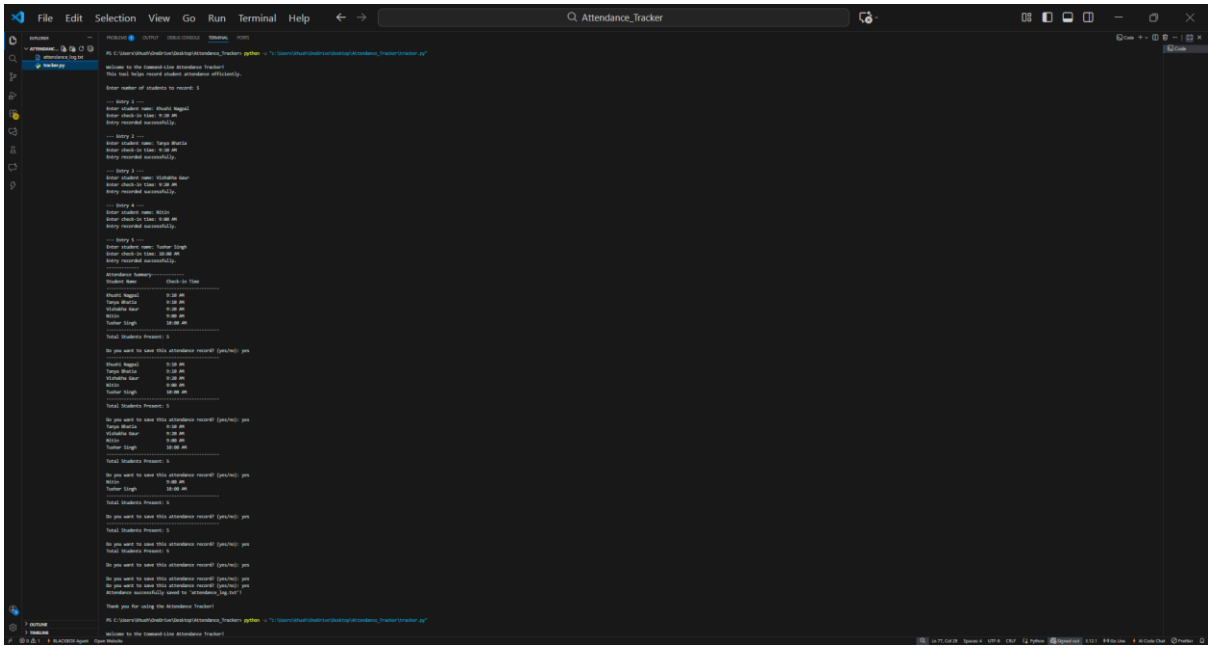
```
''' Name: Khushi
    Date: 10-Nov-2025
    Assignment Title: Attendance Tracker - Python assignment 01
    Course: Programming for Problem Solving Using Python(ETCCPP171)'''



from datetime import datetime


print("\nWelcome to the Command-Line Attendance Tracker!")
print("This tool helps record student attendance efficiently.\n")


attendance = {}


num_entries_input = input("Enter number of students to record: ")


if num_entries_input.isdigit():
    num_entries = int(num_entries_input)



    if num_entries > 0:
        count = 1
```

```
        while count <= num_entries:
            print(f"\n--- Entry {count} ---")

            name = input("Enter student name: ").strip()
            if name == "":
                print("Name cannot be empty. Please try again.")
                continue
            elif name in attendance:
                print("Duplicate entry! This student is already recorded.")
                continue
            else:
                time = input("Enter check-in time: ").strip()
                if time == "":
                    print("Timestamp missing. Please try again.")
                    continue
                else:
                    attendance[name] = time
                    print("Entry recorded successfully.")
                    count += 1
    else:
        print("Number of entries must be greater than zero.")
else:
    print("Invalid input! Please enter a valid number for entries.")

print("\nAttendance Summary".center(45, "-"))
print(f"{'Student Name':20s}\t{'Check-in Time'}")
print("-" * 45)

if len(attendance) > 0:
```

```
    for name, time in attendance.items():
        print(f"{name:20s}\t{time}")
else:
    print("No attendance records found.")

print("-" * 45)
print(f"Total Students Present: {len(attendance)}")



save_choice = input("\nDo you want to save this attendance record? (yes/no): ").lower()

if save_choice == "yes":
    if len(attendance) > 0:
        with open("attendance_log.txt", "w") as file:
            file.write("Attendance Report\n")
            file.write(f"Generated on: {datetime.now().strftime('%d-%m-%Y %H:%M:%S')}\n\n")
            file.write(f"{'Student Name':20s}\t{'Check-in Time'}\n")
            file.write("-" * 45 + "\n")
            for name, time in attendance.items():
                file.write(f"{name:20s}\t{time}\n")
            file.write("-" * 45 + "\n")
            file.write(f"Total Present: {len(attendance)}\n")
        print("Attendance successfully saved to 'attendance_log.txt'!")
    else:
        print("No data to save.")
else:
    print("Data not saved.")

print("\nThank you for using the Attendance Tracker!\n")
```

OUTPUT:


File Edit Selection View
Attendance_Tracker
EXPLORER
ATTENDANC...
attendance_log.txt
tracker.py
tracker.py .\
attendance_log.txt
tracker.py C:\...\Downloads 1
Settings
attendance_log.txt
1 Attendance Report
2 Generated on: 18-11-2025 15:50:55
3
4 Student Name Check-in Time
5 ----------
6 Khushi Nagpal 9:10 AM
7 Tanya Bhatia 9:10 AM
8 Vishakha Gaur 9:20 AM
9 Nitin 9:00 AM
10 Tushar Singh 10:00 AM
11 ----------
12 Total Present: 5
13
OUTLINE
TIMELINE
BLACKBOX Agent
Open Website
Ln 13, Col 2
Spaces: 4
UTF-8
CRLF
Plain Text
Signed out
Go Live
AI Code Chat
Prettier


File Edit Selection View Go Run Terminal Help
Attendance_Tracker