

S.No: 1	Exp. Name: Project Module	Date: 2024-05-09
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Aim:

Project Module.

Source Code:

CTP28132.py

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class Student:

    def __init__(self, name):

        self.name = name
        self.attendance = []

    def mark_attendance(self, status):
        self.attendance.append(status)

    def calculate_attendance_percentage(self):
        total_days = len(self.attendance)
        if total_days == 0:
            return 0
        present_days = self.attendance.count("Present")
        return (present_days / total_days) * 100

class AttendanceManager:

    def __init__(self):
        self.students = {}

    def add_student(self, name):
        if name not in self.students:
            self.students[name] = Student(name)
            print(f"Student '{name}' added successfully.")

        else:
            print(f"Student '{name}' already exists.")

    def mark_student_attendance(self, name, status):
        if name in self.students:
            self.students[name].mark_attendance(status)
            print(f"Attendance marked for student '{name}'.")
        else:
            print(f"Student '{name}' not found.")

    def get_student_attendance_percentage(self, name):
        if name in self.students:
            attendance_percentage =
self.students[name].calculate_attendance_percentage()
            print(f"Attendance percentage for student '{name}':
{attendance_percentage:.2f}%")

        else:
            print(f"Student '{name}' not found.")

if __name__ == "__main__":
    manager = AttendanceManager()

    while True:
        print("\n1. Add Student\n2. Mark Attendance\n3. Get Attendance
Percentage\n4. Exit")
        choice = input("Enter your choice: ")

        if choice == "1":

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elif choice == "2":
    name = input("Enter student name: ")
    status = input("Enter status (Present/Absent): ")
    manager.mark_student_attendance(name, status)

elif choice == "3":
    name = input("Enter student name: ")
    manager.get_student_attendance_percentage(name)

elif choice == "4":
    print("Exiting...")
    break

else:
    print("Invalid choice. Please try again.")

```

### Execution Results – All test cases have succeeded!

Test Case – 1
<b>User Output</b>
<b>Hello World</b>
Hello World