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# Mess Management System for Hostel

students = {}

def add_student():
    roll = input("Enter Roll Number: ")
    name = input("Enter Student Name: ")
    students[roll] = {"name": name, "attendance": 0, "extras": 0}
    print("Student added successfully!\n")

def mark_attendance():
    roll = input("Enter Roll Number: ")
    if roll in students:
        students[roll]["attendance"] += 1
        print("Attendance marked!\n")
    else:
        print("Student not found!\n")

def add_extra_items():
    roll = input("Enter Roll Number: ")
    if roll in students:
        amt = float(input("Enter extra amount: "))
        students[roll]["extras"] += amt
        print("Extra amount added!\n")
    else:
        print("Student not found!\n")

def generate_bill():
    mess_rate = 80 # per meal/day
    print("\n----- Monthly Mess Bill -----")
    for roll, data in students.items():
        bill = data["attendance"] * mess_rate + data["extras"]
        print(f"{data['name']} ({roll}) -> Rs. {bill}")
    print("-----\n")

while True:
    print("1. Add Student")
    print("2. Mark Attendance")
    print("3. Add Extra Items")
    print("4. Generate Bill")
    print("5. Exit")

    choice = input("Enter your choice: ")

    if choice == "1":
        add_student()
    elif choice == "2":
        mark_attendance()
    elif choice == "3":
        add_extra_items()
    elif choice == "4":
        generate_bill()
    elif choice == "5":
        print("Exiting system...")
        break
    else:
        print("Invalid choice!\n")

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1. Add Student
2. Mark Attendance
3. Add Extra Items
4. Generate Bill
5. Exit
Enter your choice: 1
Enter Roll Number: 101
Enter Student Name: Vaishnavi Jain
Student added successfully!

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1. Add Student
2. Mark Attendance
3. Add Extra Items
4. Generate Bill
5. Exit
Enter your choice: 2
Enter Roll Number: 101
Attendance marked!

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1. Add Student
2. Mark Attendance
3. Add Extra Items
4. Generate Bill
5. Exit

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Enter your choice: 3
Enter Roll Number: 101
Enter extra amount: 50
Extra amount added!
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1. Add Student
 2. Mark Attendance
 3. Add Extra Items
 4. Generate Bill
 5. Exit
- ```
Enter your choice: 4
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```
----- Monthly Mess Bill -----
Vaishnavi Jain (101) → Rs. 130.0

```

1. Add Student
2. Mark Attendance
3. Add Extra Items
4. Generate Bill
5. Exit

```
Enter your choice:
```