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Practical Record Note

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Programme : _____

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Certified that this is a bonafide record of work done by

MOHANAA S N of _____

Semester in **Python Programming - I Year - II Sem - Project Module** Laboratory during the academic year 2023-2024

His/Her University Register Number is **2303811710422098**

Staff Incharge

Head of the Department

Submitted for the Practical exam held on:

Internal Examiner
Date:

External Examiner
Date:

Aim:

Project Module.

Program:

CTP28132.py

CodeTantra

```

import datetime
# Initialize hotel data
rooms = {
    101: {'type': 'Single', 'available': True, 'guest': None},
    102: {'type': 'Single', 'available': True, 'guest': None},
    201: {'type': 'Double', 'available': True, 'guest': None},
    202: {'type': 'Double', 'available': True, 'guest': None},
    301: {'type': 'Suite', 'available': True, 'guest': None},
}
bookings = []

def add_booking(guest_name, room_number, check_in, check_out):
    if room_number not in rooms:
        print(f"Room {room_number} does not exist.")
        return
    if not rooms[room_number]['available']:
        print(f"Room {room_number} is not available.")
        return

    booking = {
        'guest_name': guest_name,
        'room_number': room_number,
        'check_in': check_in,
        'check_out': check_out
    }
    bookings.append(booking)
    rooms[room_number]['available'] = False
    rooms[room_number]['guest'] = guest_name
    print(f"Booking added: {booking}")

def check_availability():
    print("Room Availability:")
    for room, details in rooms.items():
        status = "Available" if details['available'] else "Occupied"
        print(f"Room {room}: {details['type']} - {status}")

def guest_records():
    print("Guest Records:")
    for room, details in rooms.items():
        if details['guest']:
            print(f"Room {room}: {details['guest']}")

def cancel_booking(guest_name, room_number):
    for booking in bookings:
        if booking['guest_name'] == guest_name and booking['room_number'] == room_number:
            bookings.remove(booking)
            rooms[room_number]['available'] = True
            rooms[room_number]['guest'] = None
            print(f"Booking cancelled for {guest_name} in room {room_number}")
            return
    print(f"No booking found for {guest_name} in room {room_number}")

def main():
    while True:
        print("\nHotel Management System")

```

```

print("1. Add Booking")
print("2. Check Room Availability")
print("3. Check Guest Records")
print("4. Cancel Booking")
print("5. Exit")

choice = input("Enter your choice: ")

if choice == '1':
    guest_name = input("Enter guest name: ")
    room_number = input("Enter room number: ")
    check_in = input("Enter check-in date (YYYY-MM-DD): ")
    check_out = input("Enter check-out date (YYYY-MM-DD): ")
    add_booking(guest_name, room_number, check_in, check_out)
elif choice == '2':
    check_availability()
elif choice == '3':
    guest_records()
elif choice == '4':
    guest_name = input("Enter guest name: ")
    room_number = input("Enter room number: ")
    cancel_booking(guest_name, room_number)
elif choice == '5':
    print("Exiting system.")
    break
else:
    print("Invalid choice. Please try again.")

if __name__ == "__main__":
    main()

```

Output:

Test case - 1	
User Output	
Hello World	
Hello World	

Result:

Thus the above program is executed successfully and the output has been verified

CodeTantra

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COURSE: Python Programming - I Year - II Sem - Project Module

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