# Sample flight data for demonstration

flights = [

{"flight\_id": 101, "origin": "New York", "destination": "London", "departure": "2024-11-01 10:00", "price": 500},

{"flight\_id": 102, "origin": "New York", "destination": "Paris", "departure": "2024-11-02 14:30", "price": 450},

{"flight\_id": 103, "origin": "London", "destination": "Dubai", "departure": "2024-11-03 22:00", "price": 600},

]

# Function to display available flights

def display\_flights():

print("Available flights:")

for flight in flights:

print(

f"Flight ID: {flight['flight\_id']} | Origin: {flight['origin']} | "

f"Destination: {flight['destination']} | Departure: {flight['departure']} | Price: ${flight['price']}"

)

# Function to book a flight

def book\_flight():

display\_flights()

try:

flight\_id = int(input("Enter the Flight ID of the flight you want to book: "))

flight = next((f for f in flights if f["flight\_id"] == flight\_id), None)

if not flight:

print("Invalid Flight ID.")

return

# Collect passenger information

passenger\_name = input("Enter your name: ")

num\_tickets = int(input("Enter the number of tickets: "))

# Calculate total cost

total\_cost = flight["price"] \* num\_tickets

print(f"\nBooking Confirmation:")

print(f"Passenger Name: {passenger\_name}")

print(f"Flight: {flight['origin']} to {flight['destination']}")

print(f"Departure: {flight['departure']}")

print(f"Number of Tickets: {num\_tickets}")

print(f"Total Cost: ${total\_cost}")

print("Your booking has been confirmed. Safe travels!")

except ValueError:

print("Invalid input. Please try again.")

# Main menu

def main():

while True:

print("\n--- Flight Booking System ---")

print("1. View Available Flights")

print("2. Book a Flight")

print("3. Exit")

choice = input("Enter your choice: ")

if choice == "1":

display\_flights()

elif choice == "2":

book\_flight()

elif choice == "3":

print("Thank you for using the Flight Booking System!")

break

else:

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

# Run the main menu

if \_name\_ == "\_main\_":

main()

OUTPUT:

--- Flight Booking System ---

1. View Available Flights

2. Book a Flight

3. Exit

Enter your choice: 1

Available flights:

Flight ID: 101 | Origin: New York | Destination: London | Departure: 2024-11-01 10:00 | Price: $500

Flight ID: 102 | Origin: New York | Destination: Paris | Departure: 2024-11-02 14:30 | Price: $450

Flight ID: 103 | Origin: London | Destination: Dubai | Departure: 2024-11-03 22:00 | Price: $600

--- Flight Booking System ---

1. View Available Flights

2. Book a Flight

3. Exit

Enter your choice: 2

Available flights:

Flight ID: 101 | Origin: New York | Destination: London | Departure: 2024-11-01 10:00 | Price: $500

Flight ID: 102 | Origin: New York | Destination: Paris | Departure: 2024-11-02 14:30 | Price: $450

Flight ID: 103 | Origin: London | Destination: Dubai | Departure: 2024-11-03 22:00 | Price: $600

Enter the Flight ID of the flight you want to book: