**from random import randint,choice**

**from datetime import date**

**today=date.today()**

**print("NAMASTE!WELCOME TO IRCTC")**

**train\_name=[**

**{"number": 12399, "name": "Kolkata Express", "from": "Kolkata", "to": "Delhi", "time": "08:00 AM"},**

**{"number": 10654,"name": "Rajdhani Express", "from": "Kolkata","to": "Delhi", "time": "06:00 PM"},**

**{"number": 12983,"name": "Chennai Mail", "from": "Chennai", "to": "Mumbai", "time": "09:30 AM"},**

**{"number": 12034, "name": "Mumbai Express", "from": "Chennai", "to": "Mumbai", "time": "07:45 PM"}**

**]**

**ticket={}**

**def show\_train():**

**print("\n:::::AVIALABLE TRAINS")**

**for train in train\_name:**

**print(f"{train['number']}. {train['name']} → {train['from']} → {train['to']} at {train['time']}")**

**def book\_ticket():**

**name = input("Enter your name: ")**

**age = input("Enter your age: ")**

**gender = input("Enter your gender: ")**

**coach\_type =input("Enter your class(1A,2A,3A,SL,GENERAL): ")**

**arrival\_date =(input("enter date: "))**

**show\_train()**

**select = int(input("Enter the train number which you want to book: "))**

**for train in train\_name:**

**if train["number"] == select:**

**ticket["pnr"] = randint(100000, 999999)**

**ticket["seat\_no"] = randint(15, 50)**

**ticket["berth\_type"] = choice(["LOWER", "UPPER", "MIDDLE","SIDE UPPER","SIDE LOWER"])**

**ticket["name"] = name**

**ticket["age"] = age**

**ticket["gender"] = gender**

**ticket["coach\_type"] = coach\_type**

**ticket["arrival\_date"] = arrival\_date**

**ticket["coach\_type"] = coach\_type**

**ticket["arrival\_date"] = arrival\_date**

**ticket["train"] = train["name"]**

**ticket["from"] = train["from"]**

**ticket["to"] = train["to"]**

**ticket["time"] = train["time"]**

**print(" Thank you for booking your train from IRCTC.\nTicket booked successfully!")**

**return**

**print("Invalid train number.")**

**def view\_ticket():**

**if ticket:**

**print("\n:::::Your Ticket::::::")**

**print(f"Name: {ticket['name']}")**

**print(f"Age: {ticket['age']}")**

**print(f"Gender: {ticket['gender']}")**

**print(f"Train: {ticket['train']}")**

**print(f"From: {ticket['from']} → To: {ticket['to']}")**

**print(f"Train Time: {ticket['time']}")**

**print(f"Train Date: {ticket['arrival\_date']}")**

**print(f"Seat No: {ticket['seat\_no']}")**

**print(f"PNR: {ticket["pnr"]}")**

**print(f"Berth: {ticket["berth\_type"]}")**

**print(f"Class: {ticket['coach\_type']}")**

**print(f"Booking Date:{today}")**

**while True:**

**print("\n:::::Train Ticket Booking System:::::")**

**print("1. Book Ticket")**

**print("2. View Ticket")**

**print("3. Exit")**

**choice\_number = input("Enter your choice (1/2/3): ")**

**if choice\_number == "1":**

**book\_ticket()**

**elif choice\_number == "2":**

**view\_ticket()**

**elif choice\_number == "3":**

**print("Goodbye! Have a nice journey."))**