import java.util.\*; // for List, Map, Scanner, Timer, etc.

import com.twilio.Twilio; // Twilio SDK

import com.twilio.rest.api.v2010.account.Message;

import com.twilio.type.PhoneNumber;

public class **SmartMediTrack**

{

public static void main(String[] args);

String category;

String existing\_account\_yes\_or\_no;

switch-case block:

// case "1": AdminDashboard.adminLogin() / adminSignup();

// case "2": DoctorDashboard.doctorLogin() / doctorSignup();

// case "3": NurseDashboard.nurseLogin() / nurseSignup();

// case "4": PatientDashboard.patientLogin() / patientSignup();

}

public class **AdminDashboard**

{

static Scanner sc;

static Map <String, String> adminCredentials;

String admin\_username;

String admin\_password;

String hospital\_name;

public static void adminLogin();

public static void adminSignup();

public static void idCreation();

}

public class **DoctorDashboard**

{

static Scanner sc;

static Map <String, String> doctorCredentials;

String doctor\_id;

String doctor\_password;

String name;

String specialization;

public static void doctorLogin();

public static void doctorSignup();

public static void fillMedicationDetails();

}

public class **NurseDashboard**

{

static Scanner sc;

static Map<String, String> nurseCredentials;

String nurse\_id;

String nurse\_password;

String name;

int ward\_id;

String contact\_no;

List<Medication> ward\_patients;

public static void nurseLogin();

public static void nurseSignup();

}

public class **PatientDashboard**

{

static Scanner sc;

static Map<String, String> patientCredentials;

String patient\_id;

String patient\_password;

String name;

String contact\_no;

String doctor\_id;

int ward\_id;

String med\_name;

double dosage;

String time;

String frequency;

List<Medication> patients;

public static void patientLogin();

public static void patientSignup();

}

public class **Doctor**

{

String doctorId;

String name;

String specialization;

List <String> assignedPatients;

public Doctor(String doctorId, String name, String specialization);

public void assignPatient(String patientId);

}

public class **Nurse**

{

String nurseId;

String name;

int wardId;

List<String> assignedPatients;

public Nurse(String nurseId, String name, int wardId);

public void assignPatient(String patientId);

}

public class **Patient**

{

String patientId;

String name;

String contactNo;

String doctorId;

int wardId;

public Patient(String patientId, String name, String contactNo, String doctorId, int wardId);

}

public class **Ward**

{

int wardId;

int totalBeds;

List<String> patientIds;

public Ward(int wardId, int totalBeds);

public boolean addPatient(String patientId);

public int getPatientCount();

public int getAvailableBeds();

}

public class **Medication**

{

String patient\_name;

String Med\_name;

String ward\_ID;

double dosage;

String time;

String frequency;

public Medication(String patient\_name, String Med\_name, String ward\_ID, double dosage, String time, String frequency);

}

public class **Reminder**

{

Timer timer;

public void scheduleReminder(Medication medication, String contactNo);

public void cancelReminder();

private void sendNotification(Medication medication, String contactNo);

}

public class **SmsSender**

{

public static final String ACCOUNT\_SID;

public static final String AUTH\_TOKEN;

public static final String TWILIO\_PHONE\_NUMBER;

public static void sendSms(String to, String messageBody);

}

public class **HospitalTracker**

{

static Map<String, Doctor> doctors;

static Map<String, Nurse> nurses;

static Map<String, Patient> patients;

static Map<Integer, Ward> wards;

public static void addDoctor(Doctor doctor);

public static void addNurse(Nurse nurse);

public static void addPatient(Patient patient);

public static void addWard(Ward ward);

public static void displayAllDoctors();

public static void displayAllNurses();

public static void displayAllPatients();

public static void displayWardStatus();

}