import java.util.Scanner;  
  
public class WeatherApp {  
  
 private static final String *API\_BASE\_URL* = "https://samples.openweathermap.org/data/2.5/forecast/hourly?q=London,us&appid=b6907d289e10d714a6e88b30761fae22";  
  
 public static void main(String[] args) {  
 Scanner scanner = new Scanner(System.*in*);  
 int option;  
  
 do {  
 *printMenu*();  
 option = scanner.nextInt();  
//switch case for displaing options  
 switch (option) {  
 case 1:  
 *getWeather*(scanner);  
 break;  
 case 2:  
 *getWindSpeed*(scanner);  
 break;  
 case 3:  
 *getPressure*(scanner);  
 break;  
 case 0:  
 System.*out*.println("Exiting the program.");  
 break;  
 default:  
 System.*out*.println("Invalid option. Please try again.");  
   
 } while (option != 0);  
  
 scanner.close();  
 }  
  
 private static void printMenu() {  
 System.*out*.println("Choose an option:");  
 System.*out*.println("1. Get weather");  
 System.*out*.println("2. Get Wind Speed");  
 System.*out*.println("3. Get Pressure");  
 System.*out*.println("0. Exit");  
 }  
  
 private static void getWeather(Scanner scanner) {  
 System.*out*.println("Enter the date (YYYY-MM-DD):");  
 String date = scanner.next();  
  
 String apiUrl = *API\_BASE\_URL* + "/weather?location=London&date=" + date;  
  
 String weatherData = "{\"date\":\"" + date + "\",\"temperature\":\"25°C\"}";  
  
 System.*out*.println("Weather on " + date + ":");  
 System.*out*.println(weatherData);  
 }  
  
 private static void getWindSpeed(Scanner scanner) {  
 System.*out*.println("Enter the date (YYYY-MM-DD):");  
 String date = scanner.next();  
  
 String apiUrl = *API\_BASE\_URL* + "/wind-speed?location=London&date=" + date;  
  
 String windSpeedData = "{\"date\":\"" + date + "\",\"wind\_speed\":\"10 km/h\"}";  
  
 System.*out*.println("Wind speed on " + date + ":");  
 System.*out*.println(windSpeedData);  
 }  
  
 private static void getPressure(Scanner scanner) {  
 System.*out*.println("Enter the date (YYYY-MM-DD):");  
 String date = scanner.next();  
  
 String apiUrl = *API\_BASE\_URL* + "/pressure?location=London&date=" + date;  
  
  
 String pressureData = "{\"date\":\"" + date + "\",\"pressure\":\"1013 hPa\"}";  
  
 System.*out*.println("Pressure on " + date + ":");  
 System.*out*.println(pressureData);  
 }  
}

**OUTPUT SCREENSHOT**



