DISASTER MANAGEMENT SYSTEM

```
Disaster(String disasterType, int severityLevel, String locationAffected) {
    this.disasterType = disasterType;
    this.severityLevel = severityLevel;
    this.locationAffected = locationAffected;

}

// Display disaster details

public void displayDisaster() { lusage

System.out.println("\nDisaster Type: " + disasterType);

System.out.println("Severity Level: " + severityLevel);

System.out.println("Location Affected: " + locationAffected);

}

// Return alert message based on disaster severity

public String getAlertMessage() { lusage

if (severityLevel >= 8) {

    return "High Severity Disaster! Immediate action required.";
} else if (severityLevel >= 5) {

    return "Medium Severity Disaster. Prepare for action.";
} else {

    return "Low Severity Disaster. Monitoring the situation.";
}

// Main method to simulate the Disaster Management System

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);
```

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```
// List to hold registered users
List<User> users = new ArrayList<>();

// Register users
System.out.print("Enter the number of users to register: ");
int numUsers = scanner.nextInt();
scanner.nextLine(); // Consume newLine

for (int i = 0; i < numUsers; i++) {
    System.out.print("\nUser " + (i + 1) + " Registration:");
    String name = scanner.nextLine();

System.out.print("Enter Name: ");
String location = scanner.nextLine();

System.out.print("Enter Location: ");
String contactNumber = scanner.nextLine();

User user = new User(name, location, contactNumber);
    users.add(user);
}

// Create a Disaster object
System.out.print("\nEnter Disaster Details:");

System.out.print("Enter Disaster Type: ");
String disasterType = scanner.nextLine();</pre>
```

```
System.out.print("Enter Disaster Severity Level (1-10): ");
int severityLevel = scanner.nextInt();
scanner.nextLine(); // Consume newline

System.out.print("Enter Location Affected: ");
String locationAffected = scanner.nextLine();

Disaster disaster = new Disaster(disasterType, severityLevel, locationAffected);
disaster.displayDisaster();

// Send alerts to users in the affected location
System.out.println("\nSending Alerts...");

String alertMessage = disaster.getAlertMessage();
for (User user : users) {
    if (user.location.equalsIgnoreCase(locationAffected)) {
        System.out.println("\nAlert sent to " + user.name + " at " + user.contactNumber);
        System.out.println("Message: " + alertMessage);
}

// Close scanner
scanner.close();
}

// Close scanner
scanner.close();
```

DISASTER MANAGEMENT SYSTEM

OUTPUT

```
User 1 Registration:
Enter Name: John
Enter Location: trichy
Enter Contact Number: 9871230983

Enter Disaster Details:
Enter Disaster Type: Bridge Repair
Enter Disaster Severity Level (1-10): 2
Enter Location Affected: samayapuram

Disaster Type: Bridge Repair
Severity Level: 2
Location Affected: samayapuram

Sending Alerts...

Process finished with exit code 0
```