**📄 Problem Statement: Telecom Missed Call Alert System (Java 8)**

**🧩 Domain: Telecom Value-Added Services (VAS)**

**🧪 Technology Focus: Java 8 features (Lambdas, Streams, Optional, forEach)**

**🔍 Objective:**

Design and implement a **console-based Telecom Missed Call Alert (MCA)** system that uses **Java 8 functional programming features** to manage and display missed calls.

**🎯 Functional Requirements:**

1. **Add Contact**
   * Store a contact's phone number and name.
   * Use a Map<String, String> to store phone-number–name pairs.
2. **Log Missed Call**
   * Each missed call includes:
     + Phone number
     + Optional contact name (if saved)
     + Time of call (LocalDateTime)
   * Store only the **last 10 missed calls** using a queue or list.
3. **Display All Missed Calls**
   * Use forEach and System.out::println to print all missed calls.
4. **Display Only Known Contacts**
   * Use **Java 8 Stream API** to filter missed calls where the contact name is available (i.e., Optional is present).

**🔧 Technical Requirements:**

* Use Java 8 features:
  + Optional for unknown caller names.
  + forEach with lambda expressions.
  + Stream API for filtering known contacts.
  + Method references (e.g., System.out::println).
* Store missed call details in a data structure that holds a maximum of 10 entries (use Deque or LinkedList).
* Implement basic CLI-based menu to:
  + Add contact
  + Add missed call
  + View all missed calls
  + View only known missed calls

**📚 Example:**

If you store:

java

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addContact("9999999999", "Rahul");

addContact("8888888888", "Priya");

Then add:

java

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addMissedCall("9999999999"); // Known

addMissedCall("1234567890"); // Unknown

You should see:

* All calls: Both shown, one with name "Rahul", one as "Unknown".
* Known calls: Only Rahul’s call shown.