Agenda

1) Highly Cohesive
2) Loosely Coupled System
3) Collections API in JAVA

Cohesion - In computer programming, **cohesion** refers to the degree to which the elements inside a module belong together.

Loosely Coupled System   -- Tightly Coupled System

1) Spider man Toy

Loosely Coupled System - Loose coupling is an approach to interconnecting the components in a system, network or software application so that those components, also called *elements*, depend on each other to the least extent practicable. Coupling refers to the degree of direct knowledge that one element has of another.

Monolith Application

MicroService application

Collections API

What – It's a group of Interfaces & Classes to manipulate group of objects.

Quiz –

1000 one rupee coin & 10 boxes of equal size.

Put these coins in the boxes.

I will ask you any amount after you put all 1000 coins in the 10 boxes.

Depending on the money which I ask, you are going to give me one or more boxes.

You need to give me exactly the same amount which I asked.

I will ask you the full amount only. (750 or 751)

You can give me one or more than one box to make the final amount which I asked.

I will not ask more than 1000 rupees.

1, 2, 4 , 8, 16, 32, 64, 128, 256, 489

Maven Local Repo - .m2 folder

Pom.xml – Project specific

Settings.xml – Config file for maven

Create a Table in MySQL and Write a Java Program to do the CRUD operation on that table.

Trainers

- Id (number), name(varchar), email (varchar), mobile (number), skills (string array)