

# Classroom Assignment <15>: Multilevel Inheritance

## **Learning Objective:**

Understand multilevel inheritance through a hierarchy of roles in an organization.

## **Expected Completion Time:**

Best Case: 20 minutes Average Case: 25 minutes

## **Assignment Details:**

#### Create three classes:

- 1. Person  $\rightarrow$  Base class with attribute name.
- 2. Employee  $\rightarrow$  Inherits from Person, adds employee id.
- 3. Manager  $\rightarrow$  Inherits from Employee, adds team size and method show details().

## **Requirements:**

- Create Person with \_\_init\_\_() to store name.
- Create Employee extending Person with employee id.
- Create Manager extending Employee with team size.
- Demonstrate by creating a Manager object and printing all attributes.

#### **Hints to Solve:**

- Pass parameters through constructors using super ().
- Use method show details() to display all details.

### **Expected Outcome:**

• Understand how information flows through **multiple levels of inheritance**.