

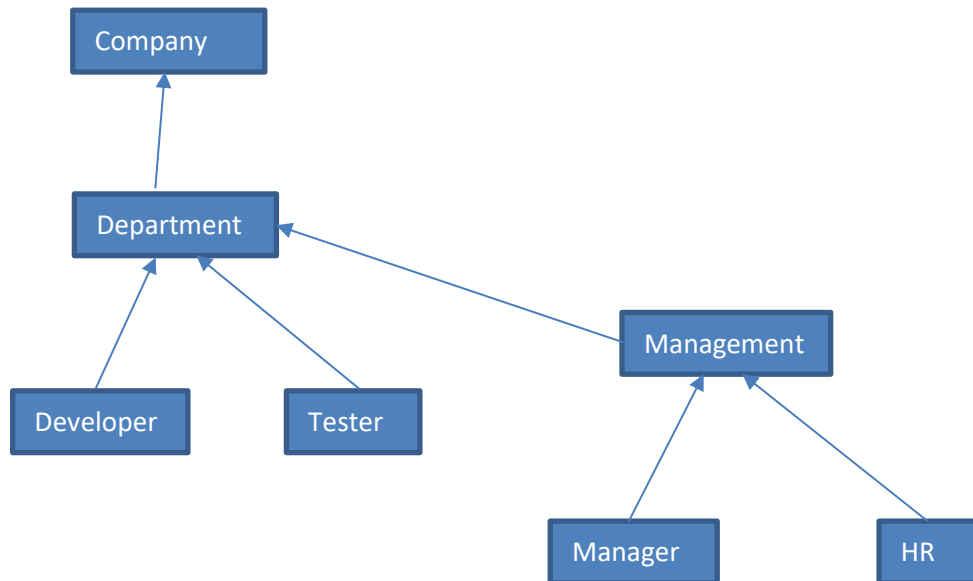
## Assignment

### Topic – Class & Objects

- 1) Define a class students with instance variables roll\_no, name, semester, branch, Also define two member function for user input data and display student data.
- 2) Define a class Employee with instance variable employee\_id, employee\_name, employee\_salary. Define constructor to initialize member variables. Define function to show employee data.
- 3) Define a class Book. To store book related information like Book\_Id, Book\_title, Book\_price, Book\_author, Book\_publisher. Define function to input and show price.
- 4) Create Account class with a default constructor and take input from user for accName, accNo and balance.
  - i. Write the following functions :
    - a.display()—to display details
    - b.deposit()---take amount as argument
    - c.withdraw()—take amount as argument—also print a message if the amount is insufficient..
    - d.checkBalance()—to display the total amount after deposit and withdraw.
- 5) Create Employee class with a default constructor and take input from user for empId, eName, salary.
  - i. Write a function to display employee details...
  - ii. Create atleast three objects and call the display function respectively.
  - iii. Find out the highest salary of an employee....
- 6) Create a class Book with a parametrized constructor
  - i. having Title, Book Publisher, Author .
  - ii. Write a method to display the details of the Book and Test the class by creating 3 objects
  - iii. Input should be taken from user..

## Inheritance

Consider the following diagram:



1. Create Company class with a parameterized constructor with **companyName**
2. Create Department class with Parameterized constructor having **dname**.
3. Create Developer class with parameterized constructor **language**

Write a function to print **CompanyName, dName, and language**.

4. Create Tester class with parameterized constructor **noOfTestCases**.

Write a function to display **companyName, deptName and noOfTestCases**

5. Create Management class with parameterized constructor having **typeOfManagement**

6. Create Manager class with parameterized constructor having **noOfProjects**

Write a function to display **cmpName, deptName, typeOfManagement, noOfProjects**

7. Create HR class with parameterized constructor with **noOfIncentives**.

Write a function to display **cmpName, deptName, typeOfManagement, noOfIncentives**

**Sample Output:**

\*\*\*\*\*Developer Details\*\*\*\*\*

Company Name: Wipro

Department Name: SalesForce

Language Used: Java

\*\*\*\*\*Tester Details\*\*\*\*\*

Company Name: Infosys

Department Name: Hadoop

No of TestCases Used: 20

\*\*\*\*\*Manager Details\*\*\*\*\*

Company Name: Cognizant

Department Name: DEpart1

type Of Management: e-Management

No of Projects: 20

\*\*\*\*\*Human Resources Details\*\*\*\*\*

Company Name: ITView Progressive Learning

Department Name: Resources

type Of Management: LogManagement

No of Recruitments: 90