Day 3: Lab assigment on Abstract Class, Interface, ArrayList

# Problem#1: An Employee Record System

You need to implement the Employee records of a company. The Company has 3 types of employee;

1. Salaried employee-> This type of employees are paid a fixed weekly salary regardless of the number of hours worked.
2. Hourly employee -> They are paid by the hour. They have an hourly rate and their payment will depend on how many hours they worked. The more they work, the more they will be paid. So, the salary will be [hour worked per week\* hourly rate].
3. Commission employee-> They are paid a percentage of their sales. If their percentage is “a” and total weekly sale is ”b”, the total weekly salary will be [a\*b/100];
4. Implement the system, where you can get the weekly salary of any employee,
5. The company also wants option to increase the salary of a particular type of employee by a specific percentage.
6. use Array List to store the list of the employee.

# Problem#2: The Payment System

Now we need to implement **the Payment system** for that company. The company wants to handle the **employee** payment and **invoice** in the same application. As Employee and Invoice are totally unrelated objects, we cannot use the same class hierarchy; we have to use an interface called “***Payable***” and implement that in both ***Employee*** class and ***Invoice*** class. So, do the following.

1. Implement the following **Payable** interface and **Invoice** class.

**Payable(interface)**

double getPayment()

1. Update both ***Invoice*** and ***Employee*** class and “*implements*” ***Payable*** interface. Make necessary code changes.

- ***getPayment()*** should display all info of respective class and the total payment.

1. Create the application class. In main method **create objects** of **each type of Employees & Invoice**

class and call the ***getPayment()*** method.

4) Write a main class to test the code