

Ex.No: 1

PROGRAM TO DEMONSTRATE POLYMORPHISM IN JAVA

07/09/2020

- a) An Employee Resource Planner for SAS Corporation Limited performs some of the basic employee management functionalities.

The classes Employee, PermanentEmployee, TemporaryEmployee such that the class Employee acts as the base class for the other two classes. Add appropriate data members and functions to the base class. The base class should contain an abstract function to calculate net salary.

The class PermanentEmployee should

1. contain data members for storing BasicSalary, HRAPercent, DAPercent, and PFPercent.
2. Provide body for the abstract function, contained in the base class, to calculate net salary on basis of the data given above

The class TemporaryEmployee should

1. contain data members for storing HourlyWages and HoursWorked
2. Provide body for the abstract function, contained in the base class, to calculate wages on basis of the data given

Design the above classes and demonstrate **dynamic binding**.

- b) Consider the scenario of Banking (as given below) to implement **run-time polymorphism**. Assume **Bank** as a class that provides method to get the rate of interest. But rate of interest varies according to banks. So design and implement the above said banking application. The rate of interest for SBI, ICICI and AXIS Bank can be taken as 8.5%, 7.4% and 9.7% respectively.


