PERTEMUAN 9 POLYMORPHISM

1. Class Employee

```
/* File name : Employee.java */
public class Employee {
 private String name;
 private String address;
 private int number;
 public Employee(String name, String address, int number) {
   System.out.println("Constructing an Employee");
   this.name = name;
   this.address = address;
   this.number = number;
 public void mailCheck() {
   System.out.println("Mailing a check to " + this.name + " " + this.address);
 public String toString() {
   return name + " " + address + " " + number;
 public String getName() {
   return name;
 public String getAddress() {
   return address;
 public void setAddress(String newAddress) {
   address = newAddress;
 public int getNumber() {
   return number;
```

2. Class Salary

```
/* File name : Salary.java */
public class Salary extends Employee {
 private double salary; // Annual salary
 public Salary(String name, String address, int number, double salary) {
   super(name, address, number);
   setSalary(salary);
 public void mailCheck() {
   System.out.println("Within mailCheck of Salary class");
   System.out.println("Mailing check to " + getName()
   + " with salary " + salary);
 public double getSalary() {
   return salary;
 public void setSalary(double newSalary) {
   if(newSalary >= 0.0) {
     salary = newSalary;
 }
 public double computePay() {
   System.out.println("Computing salary pay for " + getName());
   return salary/52;
```

3. Class VirtualDemo

```
/* File name : VirtualDemo.java */
public class VirtualDemo {

public static void main(String [] args) {
    Salary s = new Salary("Mohd Mohtashim", "Ambehta, UP", 3, 3600.00);
    Employee e = new Salary("John Adams", "Boston, MA", 2, 2400.00);
    System.out.println("Call mailCheck using Salary reference --");
    s.mailCheck();
    System.out.println("\n Call mailCheck using Employee reference--");
    e.mailCheck();
}
```