1. Write a program that describes the hierarchy of an organization. Here we need to write 3 classes Employee, Manager & Labour where Manager & Labour are the sub classes of the Employee. Manager has incentive &Labour has over time. Add the functionality to calculate total salary of all the employees. Use polymorphism i.e. method overriding.

Employee.java

**package** zensar.com;

**public** **class** Employees {

**private** **int** id;

**private** String name;

**private** String role="Employee";

**protected** **float** salary=25000.00f;

**public** Employees (**int** id, String name) {

**this**.id=id;

**this**.name=name;

}

**public** String getDetails() {

**return** "Id: "+getId()+

"\n Name: "+name+

" \n Role: "+role+

" \n Total Salary: "+salary;

}

**public** **int** getId() {

**return** id;

}

**public** String getName() {

**return** name;

}

}

Manager.java

**package** zensar.com;

**public** **class** Manager **extends** Employees {

**private** **float** incentive=5000.00f;

**protected** **float** salary=20000.00f;

**private** String role="Manager";

**public** Manager(**int** id, String name) {

**super** (id, name);

}

**public** String getDetails() {

**return** "Id: "+getId()+

"\n Name: "+getName()+

"\n Role: "+role+

"\n Total Salary: "+(incentive+salary);

}

}

Labour.java

**package** zensar.com;

**public** **class** Labour **extends** Employees {

**private** **float** overtimewage=2000.00f;

**protected** **float** wage=10000.00f;

**private** String role="Labour";

**public** Labour(**int** id, String name) {

**super**(id, name);

}

**public** String getDetails() {

**return** "Id: "+getId()+

"\n Name: "+getName()+

"\n Role: "+role+

"\n Total Salary: "+(overtimewage+wage);

}

}

Runner.java

**package** zensar.com;

**public** **class** Runner {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

Employees employee=**new** Employees(101,"Ram");

System.***out***.println("Details\n "+employee.getDetails());

Manager manager= **new** Manager(102,"Tom");

System.***out***.println("Details\n "+manager.getDetails());

Labour labour=**new** Labour(103,"Rim");

System.***out***.println("Details\n "+labour.getDetails());

}

}

Output:

Name: Tom

Role: Manager

Total Salary: 25000.0

Details

Id: 103

Name: Rim

Role: Labour

Total Salary: 12000.0

1. Write a program to consider saving & current account in the bank. Saving account holder has ‘Fixed Deposits’ whereas Current account holder has cash credit. Apply polymorphism to find out total cash in the bank.

**package** com.zensar;

**public** **class** Polymorphism {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

Saving s= **new** Saving();

s.displayDetails("Ram");

s.displayDetails1(2000);

s.calculatebalance(5);

Current c=**new** Current();

c.displayDetails("Tim");

c.displayDetails1(3000);

c.calculatebalance(5);

}

}

**class** Saving {

**double** amount;

**void** displayDetails(String name)

{

System.***out***.println(name + " ");

}

**void** displayDetails1(**double** amt)

{

System.***out***.println("Current amount =" + amt );

amount = amt;

}

**void** calculatebalance(**int** year)

{

**double** interest = 4.00;

System.***out***.println("Saving Account Total Balance = " + amount\*interest\*year);

}

}

**class** Current

{

**double** amount;

**void** displayDetails(String name)

{

System.***out***.println(name + " ");

}

**void** displayDetails1(**double** amt)

{

System.***out***.println("Current amount =" + amt );

amount = amt;

}

**void** calculatebalance(**int** year)

{

**double** interest = 2.00;

System.***out***.println("Current Account Total Balance = " + amount\*interest\*year);

}

}

Output:

Ram

Current amount =2000.0

Saving Account Total Balance = 40000.0

Tim

Current amount =3000.0

Current Account Total Balance = 30000.0