**Single level Inheritance**

**package** com.zukun.java;

**import** java.util.Scanner;

**class** Company{

String eCompany;

String eDepartment;

**int** eEmployee;

**private** Scanner sc;

**private** **int** eTotalEmployee2;

Company(String eCompany, String eDepartment, **int** eEmployee){

**this**.eCompany=eCompany;

**this**.eDepartment=eDepartment;

**this**.eEmployee=eEmployee;

sc = **new** Scanner(System.***in***);

System.***out***.println("Enter the Number of New Employess");

**int** a=sc.nextInt();

eTotalEmployee2 = eEmployee + a;

}

**void** details() {

System.***out***.println("Company Name is " +eCompany);

System.***out***.println("Employee Department is " +eDepartment);

System.***out***.println("Employee Old Employess is " +eEmployee);

//int eTotalEmployee=eEmployee + a;

System.***out***.println("Total Employess are " +eTotalEmployee2);

}

}

**class** Manager1 **extends** Company{

String mName;

**long** mSalary;

**long** mRevisedSalary;

Manager1(String eCompany, String eDepartment, **int** eEmployee, String mName, **long** mSalary){

**super**(eCompany,eDepartment,eEmployee);

**this**.mName=mName;

**this**.mSalary=mSalary;

}

**void** data() {

details();

System.***out***.println("Manager Name is " +mName);

System.***out***.println("Manager Old Saalry is " +mSalary);

mRevisedSalary=mSalary + 2000;

System.***out***.println("Manager Revised Salary is" +mRevisedSalary);

}

}

**public** **class** SingleLevelInheritance {

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

Manager1 man=**new** Manager1("Tech IT" , "Process Assosiative" , 40, "Naveen", 42000);

man.data();

}

}

**Multi Level Inheritance**

**package** com.zukun.java;

**import** java.util.Scanner;

**class** Company1 {

String cCompany;

**int** cEmployee;

**int** cNewEmployee;

String cLocation;

**private** Scanner sc;

Company1(String cCompany, **int** cEmployee, String cLocation){

**this**.cCompany=cCompany;

**this**.cEmployee=cEmployee;

**this**.cLocation=cLocation;

}

**void** company() {

sc = **new** Scanner(System.***in***);

System.***out***.println("Enter the number of new employees");

**int** a=sc.nextInt();

cNewEmployee=cEmployee + a;

System.***out***.println("The Company Name is " +cCompany);

System.***out***.println("The total Number of employees in Company is " +cEmployee);

System.***out***.println("the New Employees in the company is " +cNewEmployee);

System.***out***.println("The Company Location is" +cLocation);

}

}

**class** Manager2 **extends** Company1 {

String mName;

**int** mExperience;

Manager2(String cCompany, **int** cEmployee,String cLocation,String mName,**int** mExperience){

**super**(cCompany,cEmployee,cLocation);

**this**.mName=mName;

**this**.mExperience=mExperience;

}

**void** manager() {

company();

System.***out***.println("The manager Name is" +mName);

System.***out***.println("The experience year of manager is" +mExperience);

}

}

**class** TeamLead **extends** Manager2 {

String tName;

**int** tExperience;

**int** tMembers;

TeamLead(String tName, **int** tExperience, **int** tMembers, String cCompany, **int** cEmployee,String cLocation,String mName,**int** mExperience){

**super**(cCompany,cEmployee,cLocation,mName,mExperience);

**this**.tName=tName;

**this**.tExperience=tExperience;

**this**.tMembers=tMembers;

}

**void** teamLead() {

manager();

System.***out***.println("the teamlead name is " +tName);

System.***out***.println("The experience of lead is" +tExperience);

System.***out***.println("The number of members in team is" +tMembers);

}

}

**class** Employee1 **extends** TeamLead {

String eName;

**int** eAge;

String eDesignation;

**long** eSalary;

**long** eUpdatedSalary;

**private** Scanner sc;

Employee1(String eName, **int** eAge, String eDesignation, **long** eSalary,String tName, **int** tExperience, **int** tMembers, String cCompany, **int** cEmployee,String cLocation,String mName,**int** mExperience ){

**super**(tName, tExperience, tMembers, cCompany, cEmployee, cLocation, mName, mExperience );

**this**.eName=eName;

**this**.eAge=eAge;

**this**.eDesignation=eDesignation;

**this**.eSalary=eSalary;

}

**void** profile() {

teamLead();

sc = **new** Scanner(System.***in***);

System.***out***.println("Enter the increment of the employee");

**int** x=sc.nextInt();

**long** eUpdatedSalary=eSalary + x;

System.***out***.println("The employee name is" +eName);

System.***out***.println("The age of the employee is "+eAge);

System.***out***.println("the current Designation of employee is " +eDesignation);

System.***out***.println("The salary of employee is " +eSalary);

System.***out***.println("The updated Salary is " +eUpdatedSalary);

}

}

**public** **class** MultiLevelInheritance {

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

Employee1 emp=**new** Employee1("Yazh",20,"Developer",40000,"Kavin",10,15,"Tech Solutions",105,"Chennai","Mukesh",20);

emp.profile();

}

}

**Hierachical Inheritance**

**package** com.zukun.java;

**class** Bicycle{

String bType;

**int** bVarities;

String bRunType;

Bicycle(String bType, **int** bVarities, String bRunType){

**this**.bType=bType;

**this**.bVarities=bVarities;

**this**.bRunType=bRunType;

}

**void** bicycle() {

System.***out***.println("The type of motor is" + bType);

System.***out***.println("the varities available in company is" +bVarities);

System.***out***.println("the running type is" +bRunType);

}

}

**class** Honda **extends** Bicycle{

String hType;

**long** hCost;

Honda(String hType, **long** hCost,String bType, **int** bVarities, String bRunType){

**super**(bType,bVarities,bRunType);

**this**.hType=hType;

**this**.hCost=hCost;

}

**void** honda() {

bicycle();

System.***out***.println("the name of the vehicle is " +hType);

System.***out***.println("The cost of the vehicle is " +hCost);

}

}

**class** Suzuki **extends** Bicycle{

String sType;

**long** sCost;

Suzuki(String sType, **long** sCost,String bType, **int** bVarities, String bRunType){

**super**(bType,bVarities,bRunType);

**this**.sType=sType;

**this**.sCost=sCost;

}

**void** suzuki() {

bicycle();

System.***out***.println("The name of the vehicle is " +sType);

System.***out***.println("The Cost of the vehicle is " +sCost);

}

}

**public** **class** HeirachalInheritance {

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

Suzuki su=**new** Suzuki("Two Wheeler",60000,"TwoWheeler",6,"Petrol");

su.suzuki();

Honda ho=**new** Honda("Two Wheeler",70000,"TwoWheeler",6,"Petrol");

ho.honda();

}

}