No.Hands-on AssignmentTopics CoveredStatus1

Create a class named ‘Animal’ which includes methods like eat() and sleep().

Create a child class of Animal named ‘Bird’ and override the parent class methods. Add a new method named fly().

Create an instance of Animal class and invoke the eat and sleep methods using this object.

Create an instance of Bird class and invoke the eat, sleep and fly methods using this object.

**package** A;

**class** A

{

**public** **void** eat()

{

System.***out***.println("eat");

}

**public** **void** sleep()

{

System.***out***.println("sleep");

}

}

**class** B **extends** A

{

**public** **void** eat()

{

System.***out***.println("bird eat");

}

**public** **void** sleep()

{

System.***out***.println("bird sleep");

}

**public** **void** fly()

{

System.***out***.println("fly");

}

}

**public** **class** Animalbird {

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

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

A sc=**new** A();

ob=**new** B();

sc.eat();

sc.sleep();

ob.eat();

ob.sleep();

ob.fly();

}

}

Inheritance2

Create a class called Person with a member variable name. Save it in a file called Person.java

Create a class called Employee that will inherit the Person class.The other data members of the Employee class are annual salary (double), the year the employee started to work, and the national insurance number which is a String.Save this in a file called Employee.java

Your class should have the necessary constructors and getter/setter methods.

Write another class called TestEmployee, containing a main method to fully test your class definition.

**package** B;

**public** **class** Creatperson {

String name;

Creatperson(String name)

{

**this**.name=name;

}

**public** **void** show()

{

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

}

}

**package** B;

**public** **class** Employee **extends** Creatperson{

**private** **double** annualsalary;

**private** **int** year;

**private** String insurancenumber;

Employee()

{

**super**("akanksha");

}

**public** **void** setannulsalary(**double** annualsalary)

{

**this**.annualsalary=annualsalary;

}

**public** **double** getannualsalary()

{

**return** annualsalary;

}

**public** **void** setyear(**int** year)

{

**this**.year=year;

}

**public** **int** getyear()

{

**return** year;

}

**public** **void** setinsurancenumber(String insurancenumber)

{

**this**.insurancenumber=insurancenumber;

}

**public** String getinsurancenumber()

{

**return** insurancenumber;

}

}

**package** B;

**public** **class** TestEmployee {

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

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

Creatperson c=**new** Creatperson("akanksha");

Employee e=**new** Employee();

c.show();

e.setannulsalary(50000);

e.setyear(2018);

e.setinsurancenumber("12345678");

System.***out***.println("annual salary "+e.getannualsalary());

System.***out***.println("the year the employee started to work "+e.getyear());

System.***out***.println("national insurance number "+e.getinsurancenumber());

}

}

Inheritance3

Create a school application with a class called Person. Create name and dateOfBirth as member variables.

Create a class called Teacher that inherits from the Person class. The teacher will have additional properties like salary, and the subject that the teacher teaches.

Create a class called Student that inherits from Person class. This class will have a member variable called studentId.

Create a class called College Student that inherits from Student class. This class will have collegeName, the year in which the student is studying (first/second/third/fourth) etc.

Create objects of each of this classes, invoke and test the methods that are available in these classes.

**package** B;

**class** Wtnperson

{

String dateOfBirth="29/09/1999";

String name="akanksha";

**public** **void** show()

{

System.***out***.println("dateOfBirth of person is "+dateOfBirth);

System.***out***.println("name of person is "+name);

}

}

**class** Teacher **extends** Wtnperson

{

**int** salary=50000;

String subject="java";

**public** **void** show()

{

System.***out***.println("salary of teacher is "+salary);

System.***out***.println("subject of the teacher "+subject);

}

}

**class** Student **extends** Wtnperson

{

**int** StuId=170040696;

**public** **void** show()

{

System.***out***.println("Name of the student is "+StuId);

}

}

**class** ClassStudent **extends** Student

{

String colgname="KLU";

**int** stdYear=3;

**public** **void** show()

{

System.***out***.println("college name of the colgstudent "+colgname);

System.***out***.println("college student studying year "+stdYear);

}

}

**public** **class** SchoolAPplication {

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

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

Wtnperson p=**new** Wtnperson();

p.show();

Teacher t=**new** Teacher();

t.show();

Student s=**new** Student();

s.show();

ClassStudent cl=**new** ClassStudent();

cl.show();

}

}

Inheritance