Ques1. **package** org.example;

**class** BankAccount{

**private** **double** deposit;

**public** BankAccount(**double** deposit)

{

**this**.deposit=deposit;

}

**public** **void** Deposit(**double** deposit) {

**this**.deposit = deposit;

}

**public** **double** getDeposit() {

**return** deposit;

}

**public** **void** setDeposit(**double** deposit) {

**this**.deposit = deposit;

}

**public** **void** withdraw(**double** with) {

**if**(with<=deposit)

{

deposit=deposit-with;

}

}

}

**class** SavingsAccount **extends** BankAccount{

**public** SavingsAccount(**double** deposit) {

**super**(deposit);

}

**double** limit=500;

**public** **void** withdraw(**double** with)

{

**if**(with>500)

{

**super**.setDeposit(**super**.getDeposit()-limit);

System.***out***.println("Balance deducted"+with);

}

**else** {

System.***out***.println("Insuffiicent balance");

}

}

@Override

**public** **double** getDeposit() {

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

**return** **super**.getDeposit();

}

}

**public** **class** ques1 {

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

SavingsAccount ac= **new** SavingsAccount(10000);

ac.withdraw(2000);

}

}

Ques2. **package** org.example;

**class** vehicle{

**private** String make;

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

**public** vehicle(String make,**int** year)

{

**this**.make=make;

**this**.year=year;

}

**public** **void** setmake(String make) {

**this**.make=make;

}

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

**this**.year=year;

}

**public** String getmake()

{

**return** make;

}

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

{

**return** year;

}

}

**class** car **extends** vehicle{

**private** String model;

**public** car(String make,String model,**int** year)

{

**super**(make,year);

**this**.model=model;

}

**void** display()

{

System.***out***.println("make : "+getmake());

System.***out***.println("year : "+getyear());

System.***out***.println("model : "+model);

}

}

**public** **class** ques2 {

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

car c1= **new** car("fiat","latest",1990);

c1.display();

}

}

Ques3. **package** org.example;

**import** java.util.Scanner;

**class** Animal{

**private** String name;

**public** Animal(String name)

{

**this**.name=name;

}

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

{

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

}

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

{

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

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

}

**class** Dog **extends** Animal{

**public** Dog(String name)

{

**super**(name);

}

**public** **void** bark()

{

System.***out***.println(getName()+"is barking");

}

}

**public** **class** ques3 {

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

System.***out***.println("Enter the name of pet");

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

String tig=sc.nextLine();

Dog d1 = **new** Dog(tig);

d1.bark();

d1.eat();

d1.sleep();

sc.close();

}

}

Ques4. **package** org.example;

**import** java.util.Scanner;

**class** Student{

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

**private** String name;

**private** **int** std;

**public** **void** setName(String name) {

**this**.name= name;

}

**public** **void** setid(**int** id) {

**this**.id= id;

}

**public** **void** setstd(**int** std) {

**this**.std= std;

}

**public** String getName() {

**return** **this**.name;

}

**public** **int** getid() {

**return** **this**.id;

}

**public** **int** getstd() {

**return** **this**.std;

}

}

**public** **class** ques4 {

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

Student s1=**new** Student();

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

System.***out***.println("Enter Student name;");

s1.setName(sc.nextLine());

System.***out***.println("Enter Student id;");

s1.setid(sc.nextInt());

System.***out***.println("Enter Student std;");

s1.setstd(sc.nextInt());

sc.close();

System.***out***.println("Name : "+s1.getName());

System.***out***.println("ID : "+s1.getid());

System.***out***.println("STD : "+s1.getstd());

}

}

Ques5. package org.example;

class Vehicle{

public void startEngine() {

System.out.println("Start engine");

}

public void stopEngine() {

System.out.println("Stop engine");

}

}

class Car extends Vehicle{

@Override

public void startEngine() {

System.out.println("Start diff engine");

}

@Override

public void stopEngine() {

System.out.println("Stop diff engine");

}

}

class Motorcycle extends Vehicle{

@Override

public void startEngine() {

System.out.println("Start 3rd engine");

}

@Override

public void stopEngine() {

System.out.println("Stop 3rd engine");

}

}

public class ques5 {

public static void main(String[] args) {

Vehicle v1 = new Vehicle();

v1.startEngine();

v1.stopEngine();

Car c1 = new Car();

c1.startEngine();

c1.stopEngine();

Motorcycle m1 = new Motorcycle();

m1.startEngine();

m1.stopEngine();

}

}