######################################################################

//Abstract Class

abstract class Car

{

abstract void door();

abstract void glass();

}

class Benz extends Car

{

void door()

{

System.out.println(" Benz door");

}

void glass()

{

System.out.println(" Benz glass");

}

}

class Demo1

{

public static void main(String aa[])

{

Car ob1=new Benz();

ob1.door();

ob1.glass();

}

}

######################################################################

//Abstract Class

abstract class Car

{

abstract void door();

abstract void glass();

void wheel()

{

System.out.println(" Wheel");

}

}

class Benz extends Car

{

void door()

{

System.out.println(" Benz door");

}

void glass()

{

System.out.println(" Benz glass");

}

}

class Lancer extends Car

{

void door()

{

System.out.println(" Lancer door");

}

void glass()

{

System.out.println(" Lancer glass");

}

}

class Demo2

{

public static void main(String aa[])

{

Car ob1=new Benz();

ob1.door();

ob1.glass();

ob1.wheel();

System.out.println("=================");

System.out.println("=================");

Car ob2=new Lancer();

ob2.door();

ob2.glass();

ob2.wheel();

}

}

######################################################################

abstract class Car

{

abstract void door();

abstract void glass();

}

abstract class Benz extends Car

{

abstract void test();

}

class Sample extends Benz

{

void door()

{

System.out.println(" Sample door");

}

void glass()

{

System.out.println(" Sample glass");

}

void test()

{

System.out.println(" Sample Test");

}

}

class Demo3

{

public static void main(String aa[])

{

Sample ob=new Sample();

ob.door();

ob.glass();

ob.test();

}

}

######################################################################

interface Mail

{

void register();

void valid();

}

class Yahoo implements Mail

{

public void register()

{

System.out.println(" Yahoo registration");

}

public void valid()

{

System.out.println(" Yahoo validation");

}

}

class Demo4

{

public static void main(String aa[])

{

Mail ob1=new Yahoo();

ob1.register();

ob1.valid();

}

}

######################################################################

interface Mail1

{

void register();

}

interface Mail2

{

void register();

}

class Yahoo implements Mail1,Mail2

{

public void register()

{

System.out.println(" Yahoo registration");

}

}

class Demo5

{

public static void main(String aa[])

{

Mail1 ob1=new Yahoo();

Mail2 ob2=new Yahoo();

ob1.register();

ob2.register();

}

}

######################################################################

interface Mail

{

void register();

}

class Test

{

void display()

{

Mail ob = new Mail()

{

public void register()

{

System.out.println(" Anonymous Sub-Class ");

}

};

ob.register();

}

}

class Demo6

{

public static void main(String aa[])

{

new Test().display();

}

}

###################################################

interface Mail

{

void register();

void valid();

}

class Demo6

{

public static void main(String aa[])

{

Mail ob1=new Mail()

{

public void register()

{

System.out.println(" Unknown registration");

}

public void valid()

{

System.out.println(" Unknown validation");

}

};

ob1.register();

ob1.valid();

}

}

######################################################################

interface Mail1

{

void register();

}

class Sample

{

void test()

{

new Mail1()

{

public void register()

{

System.out.println(" Anonymous registration ");

}

}.register();

}

}

interface Mail2

{

void register();

}

class Yahoo implements Mail1,Mail2

{

public void register()

{

System.out.println(" Yahoo registration ");

}

}

class Demo5

{

public static void main(String aa[])

{

Mail1 ob1=new Yahoo();

Mail2 ob2=new Yahoo();

ob1.register();

ob2.register();

new Sample().test();

}

}