1.)

**package** assignment12;

**public** **interface** Shape {

**public** **void** calArea();

}

**package** assignment12;

**public** **class** Rectangle **implements** Shape {

**private** **int** len;

**private** **int** bred;

**public** Rectangle(**int** len, **int** bred) {

**this**.len=len;

**this**.bred=bred;

}

@Override

**public** **void** calArea() {

**int** Area = len\*bred;

System.***out***.println(Area);

}

}

**package** assignment12;

**import** java.util.ArrayList;

**import** java.util.Iterator;

**import** java.util.LinkedList;

**import** java.util.List;

**import** java.util.Vector;

**public** **class** Driver {

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

// ArrayList li = new ArrayList();

List li = **new** ArrayList();

// List li = new LinkedList();

// List li = new Vector();

// Vector li = new Vector();

li.add(**new** Rectangle(10,20));

li.add(540);

Iterator it = li.iterator();

**while**(it.hasNext()) {

Object obj = it.next();

**if**(obj **instanceof** Rectangle)

((Rectangle)obj).calArea();

System.***out***.println("Element in arraylist is " + obj);

}

}

}