14)

package doselect14;

public class Exceptions {

public String checkException(double n1, double n2, char op){

try {

if(op=='\*'&&(n1==0||n2==0)) {

throw new MultiplyByZeroException ("Multiplication with zero results in zero");

}

}

catch(MultiplyByZeroException e) {

return e.getMessage();

}

try {

if(op=='/'&&(n2==0)) {

throw new DivideByZeroException ("Division by zero results in infinity");

}

}

catch(DivideByZeroException e) {

return e.getMessage();

}

try {

if(!(op=='+'||op=='\*'||op=='-'||op=='/')) {

return op+"not a valid operator";

}}

catch(Exception e) {

return e.getMessage();

}

return "no exception found";

}

public double calculate(double v1, double v2, char op) {

switch(op) {

case'+':

return v1+v2;

case '-':

return v1-v2;

case '\*':

return v1\*v2;

case '/':

return v1/v2;

default:

return 0.0;

}}}

package doselect14;

public class DivideByZeroException extends Exception {

DivideByZeroException(String s){

super(s);

}}

package doselect14;

public class MultiplyByZeroException extends Exception {

MultiplyByZeroException(String s){

super(s);

}}

package doselect14;

public class Main {

public static void main(String[] args) {

Exceptions exc= new Exceptions();

String s=exc.checkException(10,12,',');

double c=exc.calculate(10, 12, '+');

System.out.println(s);

System.out.println(c);

}

}