1. **Userdefined Exception:**

package com.exception;

import java.util.\*;

import java.io.IOException;

class InvalidIdException extends Exception

{

InvalidIdException(String s)

{

super(s);

}

}

public class IsIdValid

{

static void validId(int id) throws InvalidIdException

{

if(id>0 && id<=99)

System.out.println("ID is valid:");

else

{

throw new InvalidIdException("ID Is not valid:");

}

}

public static void main(String[] args) throws InvalidIdException

{

validId(99);

validId(101);

System.out.println("Rest of the code:");

}

}

1. **Nested Try-Catch:**

package com.exception;

import java.io.IOException;

public class NestedTry

{

public static void main(String args[])

{

int a[]= {11,12,13,14,15};

int x=5,y=0;

try

{

try {

a[5]=x/y;

}

catch(ArrayIndexOutOfBoundsException e)

{

e.printStackTrace();

}

}

catch(Exception e)

{

e.printStackTrace();

}

}

}