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Program on Exception Handling

(i)Handle 5 Checked and 5 Unchecked Exceptions using switch case

import java.io.FileInputStream;

import java.util.Scanner;

class Exc51

{

public static void main(String args[])

{

Scanner s=new Scanner(System.in);

int ch,x;

String fname;

System.out.println("enter your choice");

do

{

System.out.println("1.checked exception 2.unchecked exception");

ch=s.nextInt();

switch(ch)

{

case 1:

System.out.println("unchecked exception");

System.out.println("1st exception");

int a[]=new int[5];

try

{

x=a[8];

}

catch(Exception e)

{

System.out.println(e);

}

System.out.println("2nd exception");

try

{

System.out.println(10/0);

}

catch(Exception e1)

{

System.out.println(e1);

}

System.out.println("3rd exception");

try

{

String s1=null;

System.out.println(s1.length());

}

catch(Exception e2)

{

System.out.println(e2);

}

System.out.println("4th exception");

try

{

String s2="abc";

int i=Integer.parseInt(s2);

}

catch(Exception e3)

{

System.out.println(e3);

}

System.out.println("5th exception");

try

{

int b[]=new int[-5];

}

catch(Exception e4)

{

System.out.println(e4);

}

break;

case 2:

System.out.println("checked exception");

System.out.println("1st exception");

try

{

System.out.println("enter the file name");

fname=s.next();

FileInputStream f=new FileInputStream(fname);

}

catch(Exception c1)

{

System.out.println(c1);

}

System.out.println("2nd exception");

try

{

throw new NoSuchMethodException();

}

catch(NoSuchMethodException c2)

{

System.out.println(c2);

}

System.out.println("3rd exception");

try

{

throw new ClassNotFoundException();

}

catch(ClassNotFoundException c3)

{

System.out.println(c3);

}

System.out.println("4th exception");

try

{

throw new InterruptedException();

}

catch(InterruptedException c4)

{

System.out.println(c4);

}

System.out.println("5th exception");

try

{

throw new IllegalAccessException();

}

catch(IllegalAccessException c5)

{

System.out.println(c5);

}

break;

}

}while(ch!=3);

}

}

output:

C:\Documents and Settings\A-51>javac Exc24.java

C:\Documents and Settings\A-51>java Exc24

enter your choice

1.checked exception 2.unchecked exception

1

unchecked exception

1st exception

java.lang.ArrayIndexOutOfBoundsException: 8

2nd exception

java.lang.ArithmeticException: / by zero

3rd exception

java.lang.NullPointerException

4th exception

java.lang.NumberFormatException: For input string: "abc"

5th exception

java.lang.NegativeArraySizeException

1.checked exception 2.unchecked exception

2

checked exception

1st exception

enter the file name

gayatri

java.io.FileNotFoundException: gayatri (The system cannot find the file specifie

d)

2nd exception

java.lang.NoSuchMethodException

3rd exception

java.lang.ClassNotFoundException

4th exception

java.lang.InterruptedException

5th exception

java.lang.IllegalAccessException

1.checked exception 2.unchecked exception