Arithmetic Expression:

package JavaAsgnmt3PendingPrograms;

class Arithmeticexception{

void method1() throws ArithmeticException{

throw new ArithmeticException("Calculation error");

}

void method2() throws ArithmeticException{

method1();

}

void method3(){

try{

method2();

}

catch(ArithmeticException e){

System.out.println("ArithmeticException handled");

}

}

public static void main(String args[]){

Arithmeticexception obj=new Arithmeticexception();

obj.method3();

System.out.println("End Of Program");

}

}

Find Word String:

package Assignment3;

public class FindWordinstring {

public static void main(String[] args) {

String strOrig = "A brown fox ran away fast";

int intIndex = strOrig.indexOf("brown");

if(intIndex == - 1) {

System.out.println("brown not found");

} else {

System.out.println("Found brown at index "+ intIndex);

}

}

}

Nested try blocks:

package JavaAsgnmt3PendingPrograms;

class Nestedtryblocks{

public static void main(String args[]){

try{

try{

System.out.println("Inside block1");

int b =45/0;

System.out.println(b);

}

catch(ArithmeticException e1){

System.out.println("Exception: e1");

}

try{

System.out.println("Inside block2");

int b =45/0;

System.out.println(b);

}

catch(ArrayIndexOutOfBoundsException e2){

System.out.println("Exception: e2");

}

System.out.println("Just other statement");

}

catch(ArithmeticException e3){

System.out.println("Arithmetic Exception");

System.out.println("Inside parent try catch block");

}

catch(ArrayIndexOutOfBoundsException e4){

System.out.println("ArrayIndexOutOfBoundsException");

System.out.println("Inside parent try catch block");

}

catch(Exception e5){

System.out.println("Exception");

System.out.println("Inside parent try catch block");

}

System.out.println("Next statement..");

}

}

Number Format Expression:

package JavaAsgnmt3PendingPrograms;

public class Numberformatexception

{

public static void main(String args[])

{

String str1= "10";

int x = Integer.parseInt(str1);

System.out.println(x\*x);

try

{

String str2= "ten";

int y = Integer.parseInt(str2);

}

catch(NumberFormatException e)

{

System.err.println("Unable to format. " + e);

}

}

}

Occurrence of Charinstring:

package JavaAsgnmt3PendingPrograms;

class Occuranceofcharinstring {

static void countEachChar(String str)

{

int counter[] = new int[256];

int len = str.length();

for (int i = 0; i < len; i++)

counter[str.charAt(i)]++;

char array[] = new char[str.length()];

for (int i = 0; i < len; i++) {

array[i] = str.charAt(i);

int flag = 0;

for (int j = 0; j <= i; j++) {

if (str.charAt(i) == array[j])

flag++;

}

if (flag == 1)

System.out.println("Occurrence of char " + str.charAt(i)

+ " in the String is:" + counter[str.charAt(i)]);

}

}

public static void main(String[] args)

{

String str = "DevLabs Alliance Training";

countEachChar(str);

}

}

Palindrome:

package Assignment3;

import java.util.Scanner;

public class Palindrome {

public static void main(String[] args) {

String str, rev = "";

Scanner sc = new Scanner(System.in);

System.out.println("Enter a string:");

str = sc.nextLine();

sc.close();

int length = str.length();

for (int i = length - 1; i >= 0; i--)

rev = rev + str.charAt(i);

if (str.equals(rev))

System.out.println(str + " is a palindrome");

else

System.out.println(str + " is not a palindrome");

}

}

Rethrow exception in catchblock:

package JavaAsgnmt3PendingPrograms;

public class Rethrowexcepincatchblock {

public static void main(String[] args) {

try{

rethrow("abc");

}catch(FirstException | SecondException | ThirdException e){

System.out.println(e.getMessage());

}

}

static void rethrow(String s) throws FirstException, SecondException,

ThirdException {

try {

if (s.equals("First"))

throw new FirstException("First");

else if (s.equals("Second"))

throw new SecondException("Second");

else

throw new ThirdException("Third");

} catch (Exception e) {

throw e;

}

}

static class FirstException extends Exception {

public FirstException(String msg) {

super(msg);

}

}

static class SecondException extends Exception {

public SecondException(String msg) {

super(msg);

}

}

static class ThirdException extends Exception {

public ThirdException(String msg) {

super(msg);

}

}

}

String to char array to string:

package Assignment3;

public class StringtoChararraytostring {

public static void main(String[] args) {

char[] ch = { 'B', 'R', 'O', 'A', 'D', 'R', 'I', 'D', 'G', 'E' };

String str = new String(ch);

System.out.println(str);

char c[] = str.toCharArray();

System.out.println("On using toCharArray() method -");

for (int i = 0; i < c.length; i++) {

System.out.println(c[i]);

}

}

}