**TP1 : Rappel : Entrée/Sortie, Exception**

Exercice 1 :

1 – Calculatrice

public class Calculatrice {

int a =5, b=0;

String op="/";

float r;

float calculer() {

if (op.equals("/"))

try{

r=a/b;

System.*out*.println("ee");

}

catch (ArithmeticException e) {

//e.printStackTrace();

System.*out*.println("Erreur: division par 0"); }

return r;

}

public static void main(String arg[]) {

Calculatrice c =new Calculatrice();

System.*out*.println(c.calculer());

System.*out*.print("fin"); }

}

2 – CalculatriceLigneCom

public class CalculatriceLigneCom {

int a , b;

String op="/";

float r;

CalculatriceLigneCom(int x, int y) {

a=x;

b=y; }

float calculer() {

if (op.equals("/"))

try{

r=a/b;

System.*out*.println("ee"); }

catch (ArithmeticException e) {

//e.printStackTrace();

System.*out*.println("Erreur: division par 0"); }

return r;

}

public static void main(String arg[]) {

CalculatriceLigneCom c =new CalculatriceLigneCom(Integer.*parseInt*(arg[0]),Integer.*parseInt*(arg[1]));

System.*out*.println(c.calculer());

System.*out*.print("fin"); }

}

3 - CalculatriceClav

import java.io.\*;

import java.util.\*;

public class CalculatriceClav {

int a , b;

String op="/";

float r;

CalculatriceClav(int x, int y) {

a=x;

b=y; }

float calculer() {

if (op.equals("/"))

try {

r=a/b;

System.out.println("ee"); }

catch (ArithmeticException e) {

//e.printStackTrace();

System.out.println("Erreur: division par 0"); }

return r; }

public static void main(String arg[]) throws IOException {

BufferedReader in = new BufferedReader(new InputStreamReader(System.in));

String L=in.readLine();

StringTokenizer str2 = new StringTokenizer(L);

//while(str2.hasMoreElements())

CalculatriceClav c =new CalculatriceClav(Integer.parseInt(str2.nextToken()),Integer.parseInt(str2.nextToken());

System.out.println(c.calculer());

System.out.print("fin"); }

}

Exercice 2 :

TP1C.txt

Bonjours les etudiants\*ISECS\*

\*TP1\*

TP1.txt

\*ISECS\*

\*TP1\*

Ex2

import java.io.\*;

import java.util.\*;

public class Ex2 {

public static void main(String arg[]) throws IOException {

FileInputStream fis = new FileInputStream("TP1.txt");

DataInputStream dis = new DataInputStream(fis);

FileOutputStream fos = new FileOutputStream("TP1C.txt");

String s="Bonjours les etudiants";

byte b[];

b=s.getBytes();

fos.write(b);

int o;

while((o=dis.read())!=-1)

fos.write(o);

dis.close();

fis.close();

fos.close();

}

}

**TP2 : Rappel : Les Threads**

Exercice 1 :

A – TwoThread1

public class TwoThread1 extends Thread {

public void run() { for ( int i = 0; i < 10; i++ ) { System.*out*.println("New thread"); } }

public static void main(String[] args) {

Thread t=Thread.*currentThread*();//Ajouter

t.setPriority(1);//Ajouter pour attribuer la priority 1 au thread main

////Par défaut main priority=5 alors il affiche MainThread puis New THread 10 fois puis 9 fois MainThread

TwoThread1 tt = new TwoThread1();

tt.start();

for ( int i = 0; i < 10; i++ ) { System.*out*.println("Main thread"); }

}

}

B – TwoThread2

public class TwoThread2 extends Thread {

public void run() {

Thread t=Thread.*currentThread*();

t.setPriority(10);

for ( int i = 0; i < 10; i++ ) { System.*out*.println("New thread "+t.getName()); }

}

public static void main(String[] args) { //Thread t=Thread.currentThread();

//t.setPriority(1);

TwoThread2 tt = new TwoThread2();

tt.start();

for ( int i = 0; i < 10; i++ ) { System.*out*.println("Main thread"); }

}

}

Exercice 2 :

Alphabet

class Alphabet implements Runnable {

public void run(){

//public void affiche() {

for (char a = 'A'; a <= 'Z'; a++) { System.*out*.print(a);

try { Thread.*sleep*(500); // ms } catch (InterruptedException e) {}

}

System.*out*.print("\n");

}

public static void main(String args[]) { Alphabet A = new Alphabet();

Alphabet B = new Alphabet();

Thread t1=new Thread (A);

Thread t2=new Thread (B);

t1.start();

t2.start();

}

}