Five keywords of exception:

1. Try:

Used to specify a block where we should place exception code

Must be followed by either catch or finally

1. Catch:

Used to handle the exception

Followed by try block

1. Finally:

Used to execute the important code of pro.

It will be executed whether the ex. Is handled or not.

1. Throw:

Throw the ex.

1. Throws:

Used to declare the exception not used to throw any ex.

Always used with any method signature with specifying there may be some ex.

occurred within the method.

Simple program:

1. program:

import java.lang.\*;

class B1

{

public static void main(String args[])

{

int a=8;

int b=0;

int c;

try

{

System.out.println("Before division:");

c=a/b;

System.out.println("After division:");

}

catch(Exception ae)

{

System.out.println("Divide by zero is not possible");

}

}

}

2)program:

import java.lang.\*;

class B1

{

public static void main(String args[])

{

int a=8;

int b=0;

int c;

try

{

System.out.println("Before division:");

c=a/b;

}

catch(Exception ae)

{

System.out.println("Divide by zero is not possible");

}

finally

{

System.out.println("finally block execute");

}

System.out.println("After division:");

}

}

3)program:

class Divider

{

public static void main(String args[])

{

try

{

System.out.println("Before Division");

int a=Integer.parseInt(args[0]);

int b=Integer.parseInt(args[1]);

System.out.println(a/b);

System.out.println("After Division");

}

catch(NumberFormatException ne)

{

System.out.println("NumberFormatException");

}

catch(ArrayIndexOutOfBoundsException e)

{

System.out.println("ArrayIndexOutOfBoundsException");

}

catch(ArithmeticException ae)

{

System.out.println("ArithmeticException");

}

finally

{

System.out.println("finally block execute");

}

}

}

4)program

class Divider

{

public static void main(String args[])

{

try

{

System.out.println("Before Division");

int a=Integer.parseInt(args[0]);

int b=Integer.parseInt(args[1]);

System.out.println(a/b);

System.out.println("After Division");

}

catch(ArithmeticException ae)

{

System.out.println("ArithmeticException");

}

finally

{

System.out.println("finally block execute");

}

}

public static void a()

{

try

{

int i=Integer.parseInt(args[2]);

System.out.println(i);

}

catch(NumberFormatException ne)

{

System.out.println("NumberFormatException");

}

finally

{

System.out.println("finally block execute");

}

}

public static void b()

{

try

{

int x[]= new x[5];

//x[6]=0;

}

catch(ArrayIndexOutOfBoundsException e)

{

System.out.println("ArrayIndexOutOfBoundsException");

}

finally

{

System.out.println("finally block execute");

}

}

}

5)program

class ex1

{

static int sum(int a,int b)

{

if(a!=0)

{

throw new ArithmeticException("Not Valid Value");

}

else

{

return (a+b);

}

}

}

public class Divider

{

public static void main(String args[])

{

int ans=ex1.sum(0,10);

System.out.println("Sum is:"+ans);

}

}

Thread program:

1)program

class a extends Thread

{

public void run()

{

for(int i=0;i<=5;i++)

{

if(i==1)

{ yield(); }

System.out.println("Thread A:"+i);

}

System.out.println("Exit A");

}

}

class b extends Thread

{

public void run()

{

for(int j=0;j<=5;j++)

{

System.out.println("Thread B:"+j);

if(j==3)

{ stop(); }

}

System.out.println("Exit B");

}

}

class c extends Thread

{

public void run()

{

for(int v=0;v<=5;v++)

{

System.out.println("Thread C:"+v);

if(v==2)

{

try

{

sleep(5000);

}

catch(Exception e)

{

System.out.println(e);

}

}

}

System.out.println("Exit C");

}

}

public class myth1

{

public static void main(String args[])

{

a a1=new a();

b b1=new b();

c c1=new c();

a1.setPriority(2);

b1.setPriority(8);

c1.setPriority(6);

a1.setName("bhoomi");

System.out.println("A is:"+a1.getName());

a1.start();

b1.start();

c1.start();

}

}

AWT:

Program:

import java.awt.\*;

public class AwtDemo extends Frame

{

Button b;

Label l;

TextField t1;

Checkbox c1,c2,c3;

Checkbox cm,cf;

CheckboxGroup cg;

AwtDemo()

{

l=new Label("User Name");

t1=new TextField();

b=new Button("Click me");

c1=new Checkbox("BCA");

c2=new Checkbox("BSCIT");

c3=new Checkbox("MCA",true);

cg=new CheckboxGroup();

cm=new Checkbox("male",cg,false);

cf=new Checkbox("female",cg,true);

add(l); add(t1);

add(b);

add(c1);

add(c2); add(c3);

add(cm); add(cf);

setSize(400,400);

setVisible(true);

setLayout(null);

l.setBounds(50,50,50,50);

t1.setBounds(150,50,120,30);

b.setBounds(100,270,80,40);

c1.setBounds(100,100,60,25);

c2.setBounds(100,140,60,25);

c3.setBounds(100,175,60,25);

cm.setBounds(80,210,60,25);

cf.setBounds(150,210,60,25);

}

public static void main(String args[])

{

AwtDemo ad=new AwtDemo();

}

}