class WrapperClassTester {

public static void main(String[] args) {

int i = 45;//primitive data int

Integer integer = new Integer(i);// Integer wrapper class instantiation

int i2 = integer.intValue();// unwrapping primitive data int from wrapper object

Integer integer2 = new Integer("23");

// all wrapper class except Character can take String in argument

System.out.println(integer2);

Integer intObj1 = new Integer(25);

Integer intObj2 = new Integer("25");

Integer intObj3 = new Integer(35);

//compareTo demo

System.out.println("Comparing using compareTo obj1 and obj2: " + intObj1.compareTo(intObj2));

System.out.println("Comparing using compareTo obj1 and obj3: " + intObj1.compareTo(intObj3));

// Equals demo

System.out.println("Comparing using compareTo obj1 and obj2: " + intObj1.equals(intObj2));

System.out.println("Comparing using compareTo obj1 and obj3: " + intObj1.equals(intObj3));

Float f1 = new Float("2.25f");

Float f2 = new Float("20.43f");

Float f3 = new Float(2.25f);

System.out.println("Comparing using compare f1 and f2: " + Float.compare(f1,f2));

System.out.println("Comparing using compare f1 and f3: " + Float.compare(f1,f3));

// Addition of Integer with Float

Float f = intObj1.floatValue() + f1;

System.out.println("Addition of intObj1 and f1: "+ intObj1 + "+" + f1 + "=" + f);

int x = Integer.parseInt("34");

System.out.println(x);

double y = Double.parseDouble("34.7");

System.out.println(y);

}

}



/////////////////////////////////////////////////////////

class Bankk{

public static void main(String[] args){

String username = "Tendulkar";

int size = username.length();

if(size > 8 && size <15){

char arr[]=username.toCharArray();

int count=0;

for(char c:arr){

if(Character.isLetter(c)){

++count;

}

}

if(count == size){

System.out.println("valid username");

}

}

}

}



/////////////////////////////////////////////////////////////////////////////////

class StringBuilderDemo{

public static void main(String[] args){

String firstName="Sachin";

String lastName="Tendulkar";

String fullName=firstName+lastName;

//'+'operator concatenates the string but creates a new object in the heap memory as sting is immutable

System.out.println(fullName);

StringBuilder sb=new StringBuilder(firstName);

String fName=sb.append(lastName).toString();//toString method converts StringBuilder to String

//StringBuilder is mutable, it appends to a single object

System.out.println(fName);

}

}



//////////////////////////////////////////////////////////////////////

class Except {

public static void divide(int x, int y) {

int z = x / y;

System.out.println(z);

}

public static void main(String[] args) {

divide(10, 0);

}

}



////////////////////////////////

class ExceptionDemo {

public static int divide(int a,int b) {

return a/b;

}

public static void main(String[] args) {

try {

divide(9,0);

} catch (ArithmeticException exception) {

System.out.println(exception);

//exception.printStackTrace();

//System.out.println(exception.getMessage());

//System.out.println(exception.toString());

}

finally {

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

}

}

}