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Practical No: 15N16

**1) Demonstrating various Character methods**

**CODE:**

import java.util.\*;

class EXP15CharacterMethods{

static void CharacterMethods(){

Character ch1 = new Character('T');

Character ch2 = new Character('9');

Character ch3 = new Character('p');

System.out.println("\n---Checking for digit---\n");

System.out.println("Is Character 1 a digit? \t\t\t\t" + Character.isDigit(ch1));

System.out.println("Is Character 2 a digit? \t\t\t\t" + Character.isDigit(ch2));

System.out.println("Is Character 3 a digit? \t\t\t\t" + Character.isDigit(ch3));

System.out.println("\n---Checking for letter---\n");

System.out.println("Is Character 1 a letter? \t\t\t\t " + Character.isLetter(ch1));

System.out.println("Is Character 2 a letter? \t\t\t\t" + Character.isLetter(ch2));

System.out.println("Is Character 3 a letter? \t\t\t\t" + Character.isLetter(ch3));

System.out.println("\n---Checking for letter or digit---\n");

System.out.println("Is Character 1 a letter or a digit? \t\t\t" + Character.isLetterOrDigit(ch1));

System.out.println("Is Character 2 a letter or a digit? \t\t\t" + Character.isLetterOrDigit(ch2));

System.out.println("Is Character 3 a letter or a digit? \t\t\t" + Character.isLetterOrDigit(ch3));

System.out.println("\n---Checking for Upper case---\n");

System.out.println("Is Character 1 an Upper Case? \t\t\t\t" + Character.isUpperCase(ch1));

System.out.println("Is Character 2 an Upper Case? \t\t\t\t" + Character.isUpperCase(ch2));

System.out.println("Is Character 3 an Upper Case? \t\t\t\t" + Character.isUpperCase(ch3));

System.out.println("\n---Checking for Lower case---\n");1

System.out.println("Is Character 1 a Lower Case? \t\t\t\t" + Character.isLowerCase(ch1));

System.out.println("Is Character 2 a Lower Case? \t\t\t\t" + Character.isLowerCase(ch2));

System.out.println("Is Character 3 a Lower Case? \t\t\t\t" + Character.isLowerCase(ch3));

System.out.println("\n---Checking for white space---\n");

System.out.println("Is Character 1 a white space? \t\t\t\t" + Character.isWhitespace(ch1));

System.out.println("Is Character 2 a white space? \t\t\t\t" + Character.isWhitespace(ch2));

System.out.println("Is Character 3 a white space? \t\t\t\t" + Character.isWhitespace(ch3));

System.out.println("\n---Coverting to Upper Case---\n");

System.out.println("Converting Character 1 to an Upper Case: \t\t" + Character.toUpperCase(ch1));

System.out.println("Converting Character 2 to an Upper Case: \t\t" + Character.toUpperCase(ch2));

System.out.println("Converting Character 3 to an Upper Case: \t\t" + Character.toUpperCase(ch3));

System.out.println("\n---Coverting to Lower Case---\n");

System.out.println("Converting Character 1 to a lower Case: \t\t" + Character.toLowerCase(ch1));

System.out.println("Converting Character 2 to a lower Case: \t\t" + Character.toLowerCase(ch2));

System.out.println("Converting Character 3 to a lower Case: \t\t" + Character.toLowerCase(ch3));}

public static void main(String[] args) {

CharacterMethods();}}

**OUTPUT:**

**2) Converting string to integer**

**CODE:**

import java.util.\*;

class EXP15StringToInt {

static void StringtoIntegers(){

String str = new String("51");

Integer x = Integer.parseInt(str);

System.out.print("String = ");

System.out.println(str);

System.out.print("Integer = ");

System.out.println(x); }

public static void main(String[] args) {

StringtoIntegers(); }}

**OUTPUT:**

**3) Converting integer to primitive data types**

**CODE:**

public class EXP15IntegerToPrimitive {

public static void main(String a[]){

Integer itr = new Integer(10);

System.out.println("byte value: "+itr.byteValue());

System.out.println("double value: "+itr.doubleValue());

System.out.println("float value: "+itr.floatValue());

System.out.println("int value: "+itr.intValue());

System.out.println("long value: "+itr.longValue());

System.out.println("short value: "+itr.shortValue());

}

}