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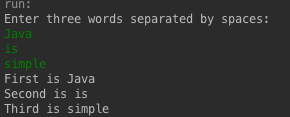
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STUDENT ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TUTORIAL 9**

**Candidates are required to answer ALL the questions. Candidates are not allowed to refer any sources such as text-books, lecture notes, files, online resources, etc.**

1. You can use a java console to store string and character value. Write a simple program to display the words as follow:

import java.util.\*;

public class Problem1{

public static void main(String args[]){

System.out.print("Enter three words separated by spaces: ");

Scanner sc = new Scanner(System.in);

String var1 = sc.next();

String var2 = sc.next();

String var3 = sc.next();

System.out.println("First is "+var1);

System.out.println("Second is "+var2);

System.out.println("Third is "+var3);

}

}

1. From the program in question 1, change all input string into upper case.

import java.util.\*;

import java.io.\*;

public class Problem2{

public static void main(String args[]){

System.out.print("Enter three words separated by spaces: ");

Scanner sc = new Scanner(System.in);

String var1 = sc.next();

String var2 = sc.next();

String var3 = sc.next();

System.out.println("First is "+var1.toUpperCase());

System.out.println("Second is "+var2.toUpperCase());

System.out.println("Third is "+var3.toUpperCase());

}

}

1. From the program in question 1, change all input string into lower case.

import java.util.\*;

import java.io.\*;

public class Problem3{

public static void main(String args[]){

System.out.print("Enter three words separated by spaces: ");

Scanner sc = new Scanner(System.in);

String var1 = sc.next();

String var2 = sc.next();

String var3 = sc.next();

System.out.println("First is "+var1.toLowerCase());

System.out.println("Second is "+var2.toLowerCase());

System.out.println("Third is "+var3.toLowerCase());

}

}

1. ../../../../../Desktop/Screen%20Shot%202016-12-09%20at%2011Write a program which prints the phrase “Java is simple”. The use the program to calculate the length of the phrase.

import java.io.\*;

public class Problem4 {

public static void main(String args[]) {

String Str1 = new String("Java is simple");

System.out.println(Str1+"\n");

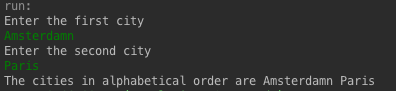
System.out.print("The length of " );

System.out.print(Str1 +" is ");

System.out.println(Str1.length());

}

}

1. Write a program which prompt user to enter the name of 2 cities. Then display result which sort the cities’ name in alphabetical order as follows:

import java.io.\*;

import java.util.\*;

public class Problem5 {

public static void main(String args[]) {

Scanner sc= new Scanner(System.in);

System.out.println("Enter the first city");

String Str1 = sc.next();

System.out.println("Enter the second city" );

String Str2=sc.next();

System.out.print("The cities in alphabetical order are " );

int result = Str1.compareTo( Str2 );

if(result>=0){

System.out.println(Str2+ " " + Str1);

}

else{

System.out.println(Str1+ " " + Str2);

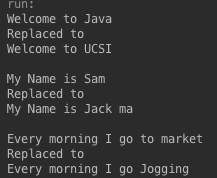
}

}

}

1. You can obtain a substring from a string using the **substring** method in the **String** class. Write a program which replace:

* “Welcome to Java” to “Welcome to UCSI”
* “My name is Sam” to “My Name is ‘Your Own Name’
* “Every morning I go to market” to “Every morning I go jogging”



import java.io.\*;

public class Problem6 {

public static void main(String args[]) {

String Str1 = new String("Welcome to Java");

System.out.println(Str1);

System.out.println("Replaced to" );

System.out.println(Str1.replace("Java", "USCI"));

System.out.println();

String Str2 = new String("My Name is Sam");

System.out.println(Str2);

System.out.println("Replaced to" );

System.out.println(Str2.replace("Sam", "Jack ma"));

System.out.println();

String Str3 = new String("Every morning I go to market");

System.out.println(Str3);

System.out.println("Replaced to" );

System.out.println(Str3.replace("to market", "Jogging"));

System.out.println();

}

}

1. The **String** class provides several overloaded **indexOf** methods to find a character or a substring in a string

**"Welcome to Java".indexOf('W')** returns?

**Ans**: **0**

**"Welcome to Java".indexOf('o')** returns**?**

**Ans**: **4**

**"Welcome to Java".indexOf('o', 5)** returns**?**

**Ans**: **9**

**"Welcome to Java".indexOf("come")** returns**?**

**Ans**: **3**

**"Welcome to Java".indexOf("Java", 5)** returns**?**

**Ans**: **11**

**"Welcome to Java".indexOf("java", 5)** returns**?**

**Ans**: **-1**

import java.io.\*;

public class Problem7 {

public static void main(String args[]) {

System.out.println("Welcome to Java".indexOf('W'));

System.out.println("Welcome to Java".indexOf('o'));

System.out.println("Welcome to Java".indexOf('o', 5));

System.out.println("Welcome to Java".indexOf("come"));

System.out.println("Welcome to Java".indexOf("Java", 5));

System.out.println("Welcome to Java".indexOf("java", 5));

}

}

…………………………………. END………………………………………..