***Dt : 8/9/2022***

***faq:***

***define TypeCasting process?***

***=>The process of converting one datatype value into another***

***datatype value is known as TypeCasting process.***

***=>TypeCasting process on Primitive DataTypes canbe done in two***

***ways:***

***1.Widening process***

***2.Narrowing process***

***1.Widening process:***

***=>The process of converting Lower datatype values into Higher***

***datatype values is known as Widening process or UpCasting process or***

***Implicit TypeCasting process.***

***char->byte->short->int->long->float->double***

***2.Narrowing process:***

***=>The process of converting Higher datatype values into Lower***

***datatype values is known as Narrowing process or DownCasting process***

***or Explicit TypeCasting process.***

***double->float->long->int->short->byte->char***

***=========================================================***

***faq:***

***define ASCII values?***

***=>ASCII stands for 'American Standard Code for Information***

***Interchance' and which is unique code representation generated for***

***every character entered from the Keyboard.***

***UpperCase Alphabets : 65 to 90***

***LowerCase Alphabets : 97 to 122***

***Numbers(0 to 9) : 48 to 57***

***Ex : DemoASCII.java***

***package maccess;***

***public class DemoASCII {***

***public static void main(String[] args) {***

***System.out.println("====UpperCase Alphabets====");***

***for(int i=65;i<=90;i++)***

***{***

***char ch = (char)i;//ASCII(int\_value) to Char***

***System.out.print(ch+" ");***

***}//end of loop***

***System.out.println("\n====LowerCase Alphabets====");***

***for(int i=97;i<=122;i++)***

***{***

***char ch = (char)i;//ASCII(int\_value) to Char***

***System.out.print(ch+" ");***

***}//end of loop***

***System.out.println("\n====Numbers(0-9)====");***

***for(int i=48;i<=57;i++)***

***{***

***char ch = (char)i;//ASCII(int\_value) to Char***

***System.out.print(ch+" ");***

***}//end of loop***

***}***

***}***

***o/p:***

***====UpperCase Alphabets====***

***A B C D E F G H I J K L M N O P Q R S T U V W X Y Z***

***====LowerCase Alphabets====***

***a b c d e f g h i j k l m n o p q r s t u v w x y z***

***====Numbers(0-9)====***

***0 1 2 3 4 5 6 7 8 9***

***==========================================================***

***Assignment-1:(Solution)***

***wap to read a String and check the String is Palindrome String or***

***not?***

***program : DemoString3.java***

***package maccess;***

***import java.util.\*;***

***public class DemoString3 {***

***public static void main(String[] args) {***

***Scanner s = new Scanner(System.in);***

***System.out.println("Enter the String:");***

***String str = s.nextLine();***

***int len = str.length();***

***int count=0;***

***int k=len-1;***

***for(int i=0;i<=len-1;i++)***

***{***

***char ch1 = str.charAt(i);//starting from index 0***

***char ch2 = str.charAt(k);//ending from index len-1***

***if(ch1==ch2)***

***{***

***count++;***

***}***

***k--;***

***}//end of loop***

***if(count==len)***

***{***

***System.out.println("Palindrome String....");***

***}//end of if***

***else***

***{***

***System.out.println("Non-Palindrome String....");***

***}***

***s.close();***

***}***

***}***

***o/p:***

***Enter the String:***

***madan***

***Non-Palindrome String....***

***===============================================================***

***Assignment-2:(Solution)***

***wap to read a String and display the following:***

***Number of Vowels :***

***Number of Consonents :***

***Number of Numerics :***

***program : DemoString4.java***

***package maccess;***

***import java.util.Scanner;***

***public class DemoString4 {***

***public static void main(String[] args) {***

***Scanner s = new Scanner(System.in);***

***System.out.println("Enter the String:");***

***String str = s.nextLine();***

***int len = str.length();***

***int alphabets=0,numbers=0,count=0;***

***for(int i=0;i<=len-1;i++)***

***{***

***char ch = str.charAt(i);***

***switch(ch)***

***{***

***case 'a':***

***case 'A':count++;***

***break;***

***case 'e':***

***case 'E':count++;***

***break;***

***case 'i':***

***case 'I':count++;***

***break;***

***case 'o':***

***case 'O':count++;***

***break;***

***case 'u':***

***case 'U':count++;***

***break;***

***}//end of switch***

***int p = (int)ch;//Char to ASCII(int\_value)***

***if(p>=65 && p<=90)***

***{***

***alphabets++;***

***}***

***if(p>=97 && p<=122)***

***{***

***alphabets++;***

***}***

***if(p>=48 && p<=57)***

***{***

***numbers++;***

***}***

***}//end of loop***

***System.out.println("Count of Vowels:"+count);***

***System.out.println("Count of Consonents:"+(alphabets-count));***

***System.out.println("Count of Numbers:"+numbers);***

***System.out.println("Count of others:"+(len-(alphabets+numbers)));***

***s.close();***

***}***

***}***

***o/p:***

***Enter the String:***

***java is 99% good in security for Web/Enterprise applications***

***Count of Vowels:20***

***Count of Consonents:28***

***Count of Numbers:2***

***Count of others:10***

***===================================================***

***Assignment:***

***wap to read a String and display the sum of numbers from the given***

***String?***

***I/P : java18 by 2022***

***o/p : sum = 1+8+2+0+2+2 = 15***

***==========================================================***

***faq:***

***define toString() method?***

***=>toString() method is used to display the content from the String***

***objects.***

***Method Signature:***

***public java.lang.String toString();***

***syntax:***

***String data = str.toString();***

***Note:***

***=>This toString() method is auto-executable method and which is***

***executed automatically when we display object reference variable.***

***===========================================================***