**String**

**1.Print all character from given string**

**package** Demo;

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

**public** **class** StringExample2 {

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

String str ;

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

System.***out***.println("Enter string");

str=sc.next();

**for** (**int** i=0; i<str.length(); i++)

{

System.***out***.println("Char at "+i+" place "+str.charAt(i));

}

}

}

**output:**

Enter string

Hello

Char at 0 place H

Char at 1 place e

Char at 2 place l

Char at 3 place l

Char at 4 place o

**2.Print all even position character from given string**

**package** Demo;

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

**public** **class** EvenPosition {

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

String str ;

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

System.***out***.println("Enter string");

str=sc.next();

**for** (**int** i=1; i<str.length(); i=i+2)

{

System.***out***.println("Char at "+i+" place "+str.charAt(i)); }

}

}

**output:**

**3.Print all odd position character from given string**

**package** Demo;

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

**public** **class** OddPosition {

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

String str ;

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

System.***out***.println("Enter string");

str=sc.next();

**for** (**int** i=0; i<str.length(); i=i+2)

{

System.***out***.println("Char at "+i+" place "+str.charAt(i));

}

}

}

**output:**

Enter string

Hello

Char at 0 place H

Char at 2 place l

Char at 4 place o

**4.count total no of vowels from given string**

**package** Demo;

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

**public** **class** Vowels {

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

String str ;

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

System.***out***.println("Enter string");

str=sc.nextLine();

**int** count = 0;

**for** (**int** i=0; i<=str.length()-1; i++)

{

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

**if**(ch =='a'|| ch == 'A'|| ch=='e'||ch=='E'||ch=='o'||ch=='O'||ch=='u'||ch=='U'||ch=='i'||ch=='I')

{

count++;

}

}

System.***out***.println("Total no of vowels are: "+count);

}

}

**output:**

Enter string

India

Total no of vowels are: 3

**5.count total no of digits from given string**

**package** Demo;

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

**public** **class** MatrixExample5 {

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

String str;

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

System.***out***.println("Enter string:");

str = sc.nextLine();

**int** digitCount = 0;

**for** (**int** i = 0; i < str.length(); i++)

{

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

**if** (ch >= '0' && ch <= '9')

{

digitCount++;

}

}

System.***out***.println("Total number of digits: " + digitCount);

}

}

**output:**

Enter string:

hello123

Total number of digits: 3

**6.Convert lowercase character into uppercase & viceversa**

**package** Demo;

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

**public** **class** StringExample3 {

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

String str ;

**char** ch;

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

System.***out***.println("Enter string");

str=sc.nextLine();

**for** (**int** i=0; i<=str.length()-1; i++)

{

ch=str.charAt(i);

**if**(ch >='A'&& ch <= 'Z')

{

ch =(**char**) (ch+32);

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

}

**else** **if**(ch >='a'&& ch <= 'z')

{

ch =(**char**) (ch-32);

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

}

}

}

}

**output:**

Enter string

hELLO

Hello

**7.accept email from user check whether it is valid or not(@ .)**

**package** Demo;

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

**public** **class** Email {

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

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

System.***out***.println("Enter an Email : ");

String str=sc.nextLine();

**if**(str != **null** && !str.isEmpty() && str.contains("@") && str.contains("."))

{

System.***out***.println("Email is valid");

}

**else**

{

System.***out***.println("Email is not valid");

}

}

}

**output:**

Enter an Email :

abc123@gmail.com

Email is valid

**8.java program to count no of samll alphabtes ,capital,digits & special characters**

**package** Demo;

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

**public** **class** StringExample {

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

String str;

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

System.***out***.println("Enter a string:");

str = sc.nextLine();

**int** smallAlphabets = 0, capitalAlphabets = 0, digits = 0 ,specialCharacters = 0;

**for** (**int** i = 0; i < str.length(); i++)

{

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

**if** (ch >= 'a' && ch <= 'z')

{

smallAlphabets++;

} **else** **if** (ch >= 'A' && ch <= 'Z')

{

capitalAlphabets++;

} **else** **if** (ch >= '0' && ch <= '9')

{

digits++;

} **else**

{

specialCharacters++;

}

}

System.***out***.println("Number of small alphabets: " + smallAlphabets);

System.***out***.println("Number of capital alphabets: " + capitalAlphabets);

System.***out***.println("Number of digits: " + digits);

System.***out***.println("Number of special characters: " + specialCharacters);

}

}

**output:**

Enter a string:

Hello World

Number of small alphabets: 8

Number of capital alphabets: 2

Number of digits: 0

Number of special characters: 1

**9.java program for replace space with \*.**

**package** Demo;

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

**public** **class** ReplaceSpace {

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

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

System.***out***.println("Enter a string: ");

String str = sc.nextLine();

String modifiedStr = str.replace(' ', '\*');

System.***out***.println("Modified string: " + modifiedStr);

}

}

**output:**

Enter a string:

Hello World

Modified string: Hello\*World

**10.compareTo**

**package** Demo;

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

**public** **class** CompareTo {

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

String str;

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

System.***out***.println("Enter 1st string");

String s1=sc.nextLine();

System.***out***.println("Enter 2st string");

String s2=sc.nextLine();

**if**(s1.compareTo(s2) == 0)

{

System.***out***.println("Both are equal");

}

**else** **if**(s1.compareTo(s2) > 0)

{

System.***out***.println(s1+"is greater than" +s2);

}

**else**

{

System.***out***.println(s1+"is smaller than" +s2);

}

}

}

**output:**

Enter 1st string

puja

Enter 2st string

puja

Both are equal

**11.Accept user name & password from user & check whether valid or not.also check validations.**

**package** Demo;

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

**public** **class** Password {

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

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

System.***out***.println("Enter username :");

String s1 = sc.nextLine();

System.***out***.println("Enter password :");

String s2 = sc.nextLine();

**if** (s1.equals("")) {

System.***out***.println("Enter username");

} **else** **if** (s2.equals("")) {

System.***out***.println("Enter password");

} **else** **if** (s1.equals("admin") && s2.equals("1234")) {

System.***out***.println("Login success");

} **else** {

System.***out***.println("Login Unsuccessful");

}

}

}

**output:**

Enter username :

admin

Enter password :

1234

Login success

**12.String concat(String anotherString)**

**package** Demo;

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

**public** **class** StrExample {

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

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

System.***out***.println("Enter 1 string");

String s1=sc.next();

System.***out***.println("Enter 2 string");

String s2=sc.next();

s1=s1.concat(s2);

System.***out***.println("Concatenated String="+s1);

s1=s1.concat(" is immutable so assign it explicitly");

System.***out***.println(s1);

}

}

**output:**

Hello

Enter 2 string

World

Concatenated String=HelloWorld

HelloWorld is immutable so assign it explicitly

**13.Accept 2 string from user if s1>s2 then s2 is concatenate at the end of s1 and**

**if s2>s1 then s1 is concatenate at the end of s2**

**other wise print msg(with ignoring case)compareToIgnoreCase(),concat()**

**package** Demo;

**import** java.util.Scanner;

**public** **class** StrCompareConcate {

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

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

System.***out***.println("Enter 1 strings:");

String s1 = sc.next();

System.***out***.println("Enter 2 strings:");

String s2 = sc.next();

**int** comparisonResult = s1.compareToIgnoreCase(s2);

**if** (comparisonResult > 0)

{

s1 = s1.concat(s2);

System.***out***.println("s1 is greater than s2, concatenated result: " + s1);

} **else** **if** (comparisonResult < 0)

{

s2 = s2.concat(s1);

System.***out***.println("s2 is greater than s1, concatenated result: " + s2);

} **else**

{

System.***out***.println("The strings are equal when case is ignored.");

}

}

}

**output:**

Enter 1 strings:

Hello

Enter 2 strings:

World

s2 is greater than s1, concatenated result: WorldHello

**14.boolean contains(String s2)**

**package** Demo;

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

**public** **class** ContainsExample {

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

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

System.***out***.println("Enter 1 string");

String str=sc.next();

System.***out***.println("Enter 2 string which u want to check");

String str1=sc.next();

**if**(str.contains(str1))

{

System.***out***.println(str1+" is contains in "+str);

}

**else**

System.***out***.println(str1+" is not contains in "+str);

}

}

**output:**

Enter 1 string

helloWorld

Enter 2 string which u want to check

World

World is contains in helloWorld

**15.Accept 1 string from user & check whether "india" string present or not if present then print msg**

**"i like my country india"**

**otherwise print msg**

**package** Demo;

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

**public** **class** CheckIndia {

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

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

System.***out***.println("Enter a string:");

String userInput = sc.nextLine();

**if** (userInput.toLowerCase().contains("india")) {

System.***out***.println("I like my country India");

} **else** {

System.***out***.println("The string does not contain 'India'");

}

}

}

**output:**

Enter a string:

I am from India

I like my country India

**16.s1.endsWith(s2)/s1.startsWith(s2)**

**package** Demo;

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

**public** **class** EndWith {

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

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

System.***out***.println("Enter 1 string");

String str=sc.next();

System.***out***.println("Enter 2 string which u want to check");

String str1=sc.next();

**if**(str.startsWith(str1))

System.***out***.println("String starts with "+str1);

**else**

System.***out***.println("String not starts with "+str1);

**if**(str.endsWith("."))

System.***out***.println("String ends with fullstop");

**else**

System.***out***.println("String not ends with fullstop ");

}

}

**output:**

Enter 1 string

HelloWorld.

Enter 2 string which u want to check

World

String not starts with World

String ends with fullstop

**17.Accept website url address from user & check whether it is valid or not**

[**http://www.google.com**](http://www.google.com/)

**package** Demo;

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

**public** **class** startwithAndendwith {

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

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

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

String url = sc.nextLine();

**boolean** startsWithValidPrefix = url.startsWith("http://") || url.startsWith("https://");

**boolean** endsWithValidSuffix = url.endsWith(".com") || url.endsWith(".org") || url.endsWith(".net") ||url.endsWith(".edu") || url.endsWith(".gov") || url.endsWith(".io");

**if** (startsWithValidPrefix && endsWithValidSuffix) {

System.***out***.println("The URL is valid.");

} **else** {

System.***out***.println("The URL is not valid.");

}

}

}

**output:**

Enter the website URL:

[http://google.com](http://google.com/)

The URL is valid.

**18.String format()**

**package** Demo;

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

**public** **class** StrFormat {

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

String name="india";

String sf1=String.*format*("name is %s",name);

String sf2=String.*format*("value is %f",32.33434);

String sf3=String.*format*("value is %32.12f",32.33434);

System.***out***.println(sf1);

System.***out***.println(sf2);

System.***out***.println(sf3);

}

}

**output:**

Name is india

value is 32.334340

value is 32.334340000000

**19.byte []getBytes()**

**package** Demo;

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

**public** **class** GetBytes {

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

String s1="ABCDEFG";

**byte**[] barr=s1.getBytes();

**for**(**int** i=0;i<barr.length;i++){

System.***out***.println(barr[i]);

}

}

}

**output:**

65

66

67

68

69

70

71

**20.String getChars()**

**package** Demo;

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

**public** **class** GetChars {

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

String str = **new** String("hello javatpoint how r u");

**char**[] ch = **new** **char**[10];

**try**

{

str.getChars(6, 16, ch, 0);

System.***out***.println(ch);

}

**catch**(Exception ex)

{

System.***out***.println(ex);

}

}

}

**output:**

javatpoint

**21.Empty Vs. Null Strings**

**package** Demo;

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

**public** **class** NullVsEmpty {

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

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

System.***out***.println("Enter 1 string");

String str=sc.nextLine();

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

**if**(size == 0)

{

System.***out***.println("The string is empty. \n");

}

**else** **if**(size > 0 && str.trim().isEmpty())

{

System.***out***.println("The string is blank. \n");

}

**else** **if**(str==**null**)

{

System.out.println("The string is null. \n");

}

**else**

{

System.***out***.println("The string is not blank. \n");

}

}

}

**output:**

Enter 1 string

The string is empty.

**22.Java String trim()**

**package** Demo;

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

**public** **class** Trim {

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

String s1=" hello string ";

System.***out***.println(s1+"javatpoint");

System.***out***.println(s1.trim()+" javatpoint");

}

}

**output:**

hello string javatpoint

hello string javatpoint

**23.Java String toUpperCase()**

**package** Demo;

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

**public** **class** UppercaseStr {

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

String s1="hello string";

String s1upper=s1.toUpperCase();

System.***out***.println(s1upper);

}

}

**output:**

HELLO STRING

**24.String toLowerCase()**

**package** Demo;

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

**public** **class** LowercaseStr {

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

String s1="HELLO STRING";

String s1upper=s1.toLowerCase();

System.***out***.println(s1upper);

}

}

**output:**

hello string

**25.Java String join(String join\_character,String word1,String word2,........) Method**

**package** Demo;

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

**public** **class** StrJoin {

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

String joinString1=String.*join*("-","welcome","to","javatpoint");

System.***out***.println(joinString1);

}

}

**output:**

welcome-to-javatpoint

**26.Java int lastIndexOf(String) and int indexOf(String)**

**package** Demo;

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

**public** **class** LastIndexOf {

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

String s1="this is index of example is ";

**int** index1=s1.lastIndexOf("is");

System.***out***.println(index1);

**int** index=s1.indexOf("is");

System.***out***.println(index);

}

}

**output:**

25

2

**27.Java String replace()**

**package** Demo;

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

**public** **class** Replace {

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

String s1="my name is khan my name is java";

String replaceString=s1.replace("is","was");

System.***out***.println(replaceString);

}

}

**output:**

my name was khan my name was java

**28.Java String replaceAll()**

**package** Demo;

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

**public** **class** ReplaceAll {

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

String s1="javatpoint is a very good website";

String replaceString=s1.replaceAll("a","e");

System.***out***.println(replaceString);

}

}

**output:**

jevetpoint is e very good website

**29.Java String split()**

**package** Demo;

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

**public** **class** StrSplit {

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

String s1;

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

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

s1=sc.nextLine();

String[] words=s1.split("\\s");

**for**(String w:words){

System.***out***.println(w);

}

}

}

**output:**

Enter String:

india is my country

india

is

my

country

**30.i/p Akash Ramesh Deshmukh**

**o/p A R Deshmukh**

**package** Demo;

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

**public** **class** StrExample2 {

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

String str = "Akash Ramesh Deshmukh";

String[] nameParts = str.split(" ");

String name = nameParts[0].charAt(0) + " " + nameParts[1].charAt(0);

String result = name + " " + nameParts[2];

System.***out***.println(result);

}

}

**output:**

A R Deshmukh

**31.i/p india is my country**

**0/p India Is My Country**

**package** Demo;

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

**public** **class** StrExample3 {

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

String str = "india is my country";

str = str.toLowerCase();

String[] words = str.split(" ");

StringBuilder capitalizedSentence = **new** StringBuilder();

**for** (String word : words)

{

String capitalizedWord = word.substring(0, 1).toUpperCase() + word.substring(1);

capitalizedSentence.append(capitalizedWord).append(" ");

}

System.***out***.println(capitalizedSentence.toString().trim());

}

}

**output:**

India Is My Country

**32.Java String substring()**

**package** demo;

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

**public** **class** Sub{

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

String s1="javatpoint";

System.***out***.println(s1.substring(2,4));

System.***out***.println(s1.substring(2));

}

}

**output:**

va

vatpoint

**33.Java static String valueOf()**

**package** demo;

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

**public** **class** Example{

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

**int** value=30;

String s1=String.*valueOf*(value);

System.***out***.println("value : "+s1+10);

}

}

**output:**

value : 3010

**34.StringBuffer Class append() Method.**

**package** demo;

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

**class** Example{

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

{

StringBuffer sb=**new** StringBuffer("Hello ");

sb.append("Java");

System.***out***.println(sb);

}

}

**output:**

Hello Java

**35.StringBuffer insert() Method**

**package** demo;

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

**class** Quick\_sort{

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

StringBuffer sb=**new** StringBuffer("india is country ");

sb.insert(9,"my ");

System.***out***.println(sb);

}

}

**output:**

india is my country

**36. Accept 1 string from user & chq whether it is palindrom or no**

**ex.madam**

**package** demo;

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

**public** **class** Example{

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

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

System.***out***.print("Enter a string: ");

String inputString = sc.nextLine();

**int** length = inputString.length();

**int** i;

**for** (i = 0; i < length / 2; i++) {

**if** (inputString.charAt(i) != inputString.charAt(length - i - 1)) {

**break**;

}

}

**if** (i == length / 2) {

System.***out***.println(inputString + " is a palindrome");

} **else** {

System.***out***.println(inputString + " is not a palindrome");

}

}

}

**output:**

Enter a string: madam

madam is a palindrome