1. **How to reverse string in java?**

Reverse a string using static method

create the object of the ReverseofaString and call the static method with the object as rev.reverse(str) by passing the given string.

public static void main(String[] args)

{

String\_reverse rev=new String\_reverse();

Scanner sc =new Scanner(System.in);

System.out.println("Enter String--");

String str=sc.nextLine();

System.out.println("Reverse a string is---"+rev.reverse(str));

}

public String reverse(String s)

{

String rev="";

for(int j=s.length(); j>0; --j)

{

rev=rev+(s.charAt(j-1));

}

return rev;

}

Using an Array

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

{

//using Array

String str;

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

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

str=sc.nextLine();

**char** ch[]=str.toCharArray();

System.***out***.println("Reverse a string----");

**int** j=ch.length;

**for**(**int** i=j;i>0;i--)

{

System.***out***.print(ch[i-1]);

}

}

How to reverse an array?

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

**int** a[]= {10,20,30,40,50};

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

{

System.***out***.print("original array---"+a[i]+" ");

}

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

**for**(**int** i=a.length-1; i>=0; i--)

System.***out***.println("reverse in array"+a[i]);

}

1. **Count the word in string**

**public** **class** count\_characterString {

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

String str="Mallika";

**int** count=0;

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

{

**if**(str.charAt(i)!=' ')

{

count++;

}

}

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

}

}

1. **duplicate character in string**

**public** **class** duplicate\_string {

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

String str1="Mallika";

**char**[] str=str1.toCharArray();

**for**(**int** i=0; i<str1.length(); i++)

{

**for**(**int** j=i+1; j<str1.length(); j++)

{

**if**(str[i]==str[j])

{

System.***out***.println(str[j]);

}

}

}

}

}

1. **Remove duplicate character in string**

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

// using linked hash set

String str="Mallika";

HashSet<Character> set=**new** LinkedHashSet<>();

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

set.add(str.charAt(i));

**for**(Character ch: set)

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

}

1. **Non-repeated string**

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

String str="Mallika";

Map<Character, Integer> charmap=**new** LinkedHashMap<Character,Integer>();

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

{

Character c=str.charAt(i);

**if**(charmap.containsKey(c))

{

charmap.put(c, charmap.get(c)+1);

}

**else** {

charmap.put(c, 1);

}

}

**for**(Entry<Character, Integer> e:charmap.entrySet())

{

**if**(e.getValue()==1)

{

System.***out***.println(e.getKey());

}

}

}

1. **Count character in string**

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

String str="Mallika";

**int** count=0;

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

{

**if**(str.charAt(i)!=' ')

{

count++;

}

}

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

}

1. **Largetest and smallest in array**

**int** arr[]= {20,40,80,30,10,15};

**int** largest=arr[0];

**int** smallest=arr[0];

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

{

**if**(arr[i]>largest)

largest=arr[i];

**else** **if**(arr[i]<smallest)

smallest=arr[i];

}

System.***out***.println("largest value of an array is :" +largest);

System.***out***.println("Smallest value of an array is :"+smallest);

}

1. **Armstrong Number**

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

**int** n=153;

**int** c=0;

**int** temp=n;

**while**(n>0)

{

**int** a=n%10;

n=n/10;

c=c+(a\*a\*a);

}

**if**(temp==c)

{

System.***out***.println("This no. is Armstring no.");

}

**else** {

System.***out***.println("This no. is not armstrong no.");

}

}

1. **Unique character in string**

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

**boolean** result=**false**;

String str="IcanLivee";

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

HashSet<Character> set=**new** HashSet<Character>();

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

{

result=set.add(str.charAt(i));

**if**(result==**false**)

**break**;

}

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

}

1. **Anagram Program**

**boolean** result=*isAnagram*("now Fine","owninaf");

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

}

**public** **static** **boolean** isAnagram(String first, String second)

{

//remove white space

first=first.replaceAll("\\s", "").toLowerCase();

second=second.replaceAll("\\s", "").toLowerCase();

//compare length

**if**(first.length()!=second.length())

**return** **false**;

//string to char

**char**[] firstArray=first.toCharArray();

**char**[] secondArray=second.toCharArray();

//sorting

Arrays.*sort*(firstArray);

Arrays.*sort*(secondArray);

**return** Arrays.*equals*(firstArray,secondArray);

1. **Vowels count in string**

**public** **static** **int** vowel(String s)

{

**int** c,i;

**for**(i=0,c=0; i<s.length();i++)

{

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

**if**((ch=='a')||(ch=='e')||(ch=='i')||(ch=='o')||(ch=='u'))

c++;

}

**return** c;

}

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

System.***out***.println("My name is mallika");

**int** res=*vowel*("My name is mallika");

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

}

1. **Sum of array**

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

**int** arr[]= {3,2,2,3};

**int** sum=0;

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

{

sum=sum+arr[i];

}

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

}

1. **Shuffle an array**

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

**int**[] arr= {4,3,1,7,8,4,2,1};

Random rand=**new** Random();

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

{

**int** shuffle=rand.nextInt(arr[i]);

**int** temp=arr[shuffle];

arr[shuffle]=arr[i];

arr[i]=temp;

}

System.***out***.println(Arrays.*toString*(arr));

}

1. **Count character in string.**

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

String str="Mallika";

//char ch[]=str.toCharArray();

HashMap<Character, Integer> map=**new** LinkedHashMap<Character, Integer>();

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

{

Character c=str.charAt(i);

**if**(map.containsKey(c))

{

map.put(c, map.get(c)+1);

}

**else**

map.put(c, 1);

}

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

}