**Java**

**Reverse String**

public class **ReverseString**

{

public static void main(String[] args)

{

//Reverse a String

String str = "HELLO";

String revString = "";

StringBuilder input = new StringBuilder();

input.append(str);

input.reverse();

System.out.println("Reverse Value is: "+ input);

}

}

**Reverse String**

public class **ReverseString**

{

public static void main(String[] args)

{

String str= "Geeks", nstr="";

char ch;

System.out.print("Original word: ");

System.out.println("Geeks"); //Example word

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

{

ch= str.charAt(i); //extracts each character

nstr= ch+nstr; //adds each character in front of the existing string

}

System.out.println("Reversed word: "+ nstr);

}

}

//Write a Java Program to **swap two numbers** using the third variable.

public class **SwapTwoNumbersWithThirdVariable** {

public static void main(String[] args) {

// TODO Auto-generated method stub

int x=20, y=30, temp;

System.out.println("Before Swapping: " + x +" and "+ y);

temp = x;

x = y;

y = temp;

System.out.println("After Swapping: " + x +" and "+ y);

}

}

//Write a Java Program to swap two numbers without using the third variable.

public class **SwapTwoNumbersWithoutThirdVariable** {

public static void main(String[] args) {

// TODO Auto-generated method stub

int x=20, y=30, temp;

System.out.println("Before Swapping: " + x +" and "+ y);

x = x+y;//50

y = x-y;//20

x = x-y;//50-20 = 30

System.out.println("After Swapping: " + x +" and "+ y);

}

}

//Write a Java Program to count the number of words in a string using HashMap.

import java.io.\*;

import java.util.HashMap;

import java.util.Arrays;

public class **countOccurenceOfNumbersUsingMap** {

public static void main(String[] args)

{

// Declaring the String

String str = "Alice is girl and Bob is boy";

// Declaring a HashMap of <String, Integer>

HashMap<String, Integer> map = new HashMap<>();

//store the each word in an array

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

System.out.println(Arrays.toString(words));

//for each loop

for (String word : words) {

//Chech if seperated word from words exists in above created Map

if (map.containsKey(word))

//if YES, value will be occurence of word count + 1

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

//if No, value count wil be stored in map as 1

else {

map.put(word, 1);

}

}

System.out.println(map);

}

}