String worksheet

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1.

import java.util.Scanner;  
  
public class q1 {  
 public static void main(String[] args) {  
 //Write a program to search a string for a specified character or substring.  
 Scanner scr = new Scanner(System.*in*);  
 String s = scr.next();  
 String a = scr.next();  
 boolean flag = false;  
 for (int i=0; i<s.length()-a.length()+1; i++) {  
 if (s.substring(i,i+a.length()).equalsIgnoreCase(a)) {  
 flag = true;  
 break;  
 }  
 }  
 if(flag==true) {  
 System.*out*.println("The string '"+a+"' is present.");  
 }  
 else {  
 System.*out*.println("The string '" + a + "' is not present.");  
 }  
 }  
}

2.

import java.util.Scanner;  
  
public class q2 {  
 public static void main(String[] args) {  
 Scanner scr = new Scanner(System.*in*);  
 String s = scr.nextLine().toLowerCase();  
 int [] arr = new int[26];  
 for(int i=0; i<s.length(); i++) {  
 if(s.charAt(i)>='a' && s.charAt(i)<='z')  
 arr[(int)s.charAt(i)-97] += 1;  
 }  
 for(int i=0; i<26; i++) {  
 if(arr[i]!=0)  
 System.*out*.println((char)(i+97)+ " - " +arr[i]);  
 }  
 }  
}

3.

import java.util.Locale;  
import java.util.Scanner;  
  
public class q3 {  
  
 public static boolean isPalindrome(String str)  
 {  
 String rev = "";  
 for (int i = str.length() - 1; i >= 0; i--) {  
 rev = rev + str.charAt(i);  
 }  
 str=str.toLowerCase();  
 rev=rev.toLowerCase();  
 if (str.equals(rev)) {  
 return true;  
 }  
 return false;  
 }  
 public static void main(String[] args) {  
 //Program to print smallest and biggest possible palindrome word in a given string  
 Scanner scr = new Scanner(System.*in*);  
 String s = scr.next();  
 String max = "";  
 if(s.length()==1) {  
 max = s;  
 }  
 else {  
 for(int i=0; i<s.length()+1; i++) {  
 for (int j = i; j < s.length()+1; j++) {  
 String str = s.substring(i, j);  
 if (*isPalindrome*(str) && str.length() >= max.length())  
 max = str;  
 }  
 }  
 }  
 System.*out*.println("The longest palindrome is: "+max+"\nThe smallest palindrome is: "+s.charAt(0));  
 }  
}