Assignment Answers

3.public class String\_assignment

{

public static void main(String[] args)

{

String str1="2552";

String str2="";

for(int i=str1.length()-1;i>=0;i--)

{

str2=str2+str1.charAt(i);

}

if(str1.equals(str2))

{

System.out.println("given string is palindrome");

}

else{

System.out.println("given string is not palindrome");

}

}

}

6.public class String\_assignment

{

public static void main(String[] args)

{

String str1="2552";

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for(int i=str1.length()-1;i>=0;i--)

{

str2=str2+str1.charAt(i);

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if(str1.equals(str2))

{

System.out.println("given string is palindrome");

}

else{

System.out.println("given string is not palindrome");

}

}

}

5.import java.util.Arrays;

public class anagram

{

public static void main(String[] args) {

String str1="School Master";

String str2="The classroom";

str1=str1.replace(" ", "");

str2=str2.replace(" ", "");

str1=str1.toLowerCase();

str2=str2.toLowerCase();

char []ar1 =str1.toCharArray();

char []ar2=str2.toCharArray();

Arrays.sort(ar1);

Arrays.sort(ar2);

if(Arrays.equals(ar1, ar2))

{

System.out.println("it is a anagram");

}

else

{

System.out.println("it is not a anagram");

}

}

}

1.public class String\_assignment

{

public static void main(String[] args)

{

String str="hello hello";

String result="";

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

String ch= ""+str.charAt(i);

if(result.contains(ch)){

continue;

}

result+=ch;

}

System.out.println(result);

}

}

2.import java.util.HashMap;

public class DuplicateCharacters {

public static void printDuplicateCharacters(String str) {

HashMap<Character, Integer> charCountMap = new HashMap<>();

// Populate HashMap with character occurrences

for (char c : str.toCharArray()) {

charCountMap.put(c, charCountMap.getOrDefault(c, 0) + 1);

}

// Print characters with occurrences > 1

System.out.println("Duplicate Characters in String:");

for (HashMap.Entry<Character, Integer> entry : charCountMap.entrySet()) {

if (entry.getValue() > 1) {

System.out.println(entry.getKey());

}

}

}

public static void main(String[] args) {

String str = "hello world";

printDuplicateCharacters(str);

}

}

4.import java.util.Scanner;

public class String\_assignment{

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

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

String input = scanner.nextLine().toLowerCase();

scanner.close();

int vowels = 0;

int consonants = 0;

int specialCharacter = 0;

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

char ch = input.charAt(i);

if (Character.isLetter(ch)) {

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

vowels++;

} else {

consonants++;

}

} else {

specialCharacter++;

}

}

System.out.println("Vowels: " + vowels);

System.out.println("Consonants: " + consonants);

System.out.println("Special Characters: " + specialCharacter);

}

}