Vishakha java assignment 2

1. Public class DuplicateCharacters{

Public static void main(String args[]){

String string 1=”good responsibility”;

int count;

char string[]=string1.toCharArray();

System.out.println(“Duplicate characters in a given string:”);

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

count=1;

for(int j=i+1;j<string.length;j++){

if(string[i]==string[j] && string[i]!=’’){

count++;

string[j]=’0’;

}

}

If(count>1 && string!=’0’)

System.out.println(string[i]);

}

}

}

1. While loop

Import java.util.Scaner;

Class ReverseNumberWhile{

Public static void main(string args[]){

int num=0;

int reversenum=0;

System.out.println(“input our number :”);

Scanner in=new Scanner(System.in);

num=in.nextInt();

while(num!=0){

reversenum=reversenum\*10;

reversenum=reversenum+num%10;

num=num/10;

}

System.out.println(“reverse of input number is:”+reversenum);

}

}

For loop

Import java.util.Scaner;

Class ReverseNumberFor{

Public static void main(string args[]){

int num=0;

int reversenum=0;

System.out.println(“input our number :”);

Scanner in=new Scanner(System.in);

num=in.nextInt();

for(num!=0){

reversenum=reversenum\*10;

reversenum=reversenum+num%10;

num=num/10;

}

System.out.println(“reverse of input number is:”+reversenum);

}

}

Recursion

Import java.util.Scanner;

Class RecursionReverseDemo{

Public static void reversemain(int number) {

If(number<10){

System.out.println(number);

return;

}

else {

System.out.print(number %10);

reverseMethod(number/10);

}

}

Public static void main(String args[])

{

Int num=0;

System.out.println(“input your number:”);

Scanner in=new Scanner(System.in);

num=in.nextInt();

System.out.print(“Reverse of the input number is;”);

reverseMethod(num);

System.out.println();

}

}

1. import java.util.Scanner;

public class main

{

Static Boolean checkPalindrome(String str,int s,int e)

{

If (s==e)

return true;

if ((str.charAt(s)) !=(str.charAt(e)))

return false;

if (s<e+1)

return checkpalindrome(str,s+1,e-1);

return true;

}

Static boolean isPalindrome(String str)

{

Int n=str.length();

Int(n==0)

return true;

return checkPlindrome(str,0,n-1);

}

Public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

System.out.println(“enter the string :”);

String str=sc.nextline();

If(ispalindrome(str))

System.out.println(str+” ispalindrome”);

else

System.out.println(str+”is not a palindrome”);

}

}

1. public class JavaExample{

public static void main(String args[]){

String str =”welcome to Bangalore”;

String reversed=reverseString(str);

System.out.println(“the reversed string is “+reversed);

}

Public static String reverseString(String str)

{

If(str.isEmpty())

Return str;

return reverseString(str.substring(1))+str.charAt(0);

}

}

|  |
| --- |
| packagemyString; |
|  | importjava.util.Arrays; |
|  | publicclass SortString { |
|  | publicstatic String sortString(StringinputString) |
|  | { |
|  |  |
|  | char tempArray[] = inputString.toCharArray(); |
|  |  |
|  |  |
|  | Arrays.sort(tempArray |
|  |  |
|  |  |
|  | returnnew String(tempArray); |
|  | } |
|  |  |
|  |  |
|  | publicstatic void main(String[] args) |
|  | { |
|  |  |
|  | String inputString = “arisglobal”; |
|  | String outputString = sortString(inputString); |
|  |  |
|  | System.out.println(“Input String : “ + inputString); |
|  |  |
|  | System.out.println(“Output String : “ + outputString); |
|  | } |
|  | } |
|  |  |

|  |
| --- |
| publicclass Factorial { |
|  |  |
|  | publicstatic void main(String[] args) { |
|  | int num = 6; |
|  | long factorial = multiplyNumbers(num); |
|  | System.out.println("Factorial of " + num + " = " + factorial); |
|  | } |
|  | publicstatic long multiplyNumbers(intnum) |
|  | { |
|  | if (num >= 1) |
|  | return num \* multiplyNumbers(num - 1); |
|  | Else |
|  | return1; |
|  | } |
|  | } |

|  |
| --- |
| classPrimeNumbers |
|  | { |
|  | publicstatic void main(Stringargs[]) |
|  | { |
|  | int n; |
|  | int status = 1; |
|  | int num = 3; |
|  | System.out.println("First 100 prime numbers are:"); |
|  | System.out.println(2); |
|  | for ( int i = 2 ; i <=100 ; ) |
|  | { |
|  | for ( int j = 2 ; j <= Math.sqrt(num) ; j++ ) |
|  | { |
|  | if ( num%j == 0 ) |
|  | { |
|  | status = 0; |
|  | break; |
|  | } |
|  | } |
|  | if ( status != 0 ) |
|  | { |
|  | System.out.println(num); |
|  | i++; |
|  | } |
|  | status = 1; |
|  | num++; |
|  | } |
|  | } |
|  | } |
| 8. |
|  |
|  |
| Public class CharecterOccerence | publicstatic void main(String[] args) { |
|  | String input="Welcome"; |
|  | char search = 'e'; |
|  | int count=0; |
|  | for(int i=0; i<input.length();i++){ |
|  | if(input.charAt(i)==search) |
|  | count++; |
|  | } |
|  | System.err.println("The character " +search+ "appears " +count+" times"); |
|  | } |
|  | } |

|  |
| --- |
| importjava.util.Scanner; |
|  |  |
|  | publicclass Squareroot { |
|  |  |
|  | privatestatic Scanner sc; |
|  |  |
|  | publicstatic void main(String[] args) { |
|  |  |
|  | sc = new Scanner(System.in); |
|  |  |
|  | System.out.print("Please Enter Any Number to find Square Root = "); |
|  | double num = sc.nextDouble(); |
|  |  |
|  | double temp, squareroot; |
|  |  |
|  | squareroot = num / 2; |
|  |  |
|  | do { |
|  | temp = squareroot; |
|  | squareroot = (temp + (num / temp))/2; |
|  | } while((temp - squareroot) != 0); |
|  |  |
|  | System.out.println("\nThe Square Root of the number is= " + squareroot); |
|  | } |
|  | } |

|  |
| --- |
| publicclass CountVowelsConsonants { |
|  | publicstatic void main(String[] args) { |
|  |  |
|  | //Counter variable to store the count of vowels and consonant |
|  | int vCount = 0, cCount = 0; |
|  |  |
|  | //Declare a string |
|  | String str = "drishya"; |
|  |  |
|  | //Converting entire string to lower case to reduce the comparisons |
|  | str = str.toLowerCase(); |
|  |  |
|  | for(int i = 0; i < str.length(); i++) { |
|  | //Checks whether a character is a vowel |
|  | if(str.charAt(i) == 'a'|| str.charAt(i) == 'e'|| str.charAt(i) == 'i'|| str.charAt(i) == 'o'|| str.charAt(i) == 'u') { |
|  | //Increments the vowel counter |
|  | vCount++; |
|  | } |
|  | //Checks whether a character is a consonant |
|  | elseif(str.charAt(i) >= 'a'&& str.charAt(i)<='z') { |
|  | //Increments the consonant counter |
|  | cCount++; |
|  | } |
|  | } |
|  | System.out.println("Number of vowels: "+ vCount); |
|  | System.out.println("Number of consonants: "+ cCount); |
|  | } |
|  | } |