Java Programming 23cs139 ramji b

1.ADD TWO NUMBER:

import java.util.\*;

class sum{

public static void main(String[] args) {

System.out.println("Enter a number");

Scanner S =new Scanner(System.in);

int a=S.nextInt();

int b= S.nextInt();

System.out.println(a+b);

}

}

2.ODD OR EVEN:

import java.util.\*;

class oddeven {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

int num = a.nextInt();

if(num %2==0){

System.out.println("even"+num);

}

else{

System.out.println("odd"+num);

}

}

}

3.GREATER OF THREEE:

import java.util.\*;

public class greater3 {

public static void main(String[] args) {

System.out.println("Enter a number");

Scanner S =new Scanner(System.in);

int a=S.nextInt();

int b=S.nextInt();

int c=S.nextInt();

if (a>b & a>c) {

System.out.println("a is large" + a);

}

else if (b>a & b>c){

System.out.println("b is large" + b);

}

else{

System.out.println("c is large" + c);

}

}

}

4.FACTORIAL OF NUMBER:

import java.util.\*;

public class fact {

public static void main(String[] var0) {

System.out.println("Enter a number");

Scanner var1 = new Scanner(System.in);

int var2 = var1.nextInt();

int i=1;

int sum=1;

while (i<=var2) {

sum=sum\*i;

i++;

}

System.out.println(sum);

}

}

5.REVERSE A STRING:

import java.util.\*;

class reversestr {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

String str = a.next();

int l = str.length();

String k ="";

for (int i =l-1;i>=0;i--){

k=k+str.charAt(i);

}

System.out.println(k);

}

}

6.PRIME NUMBER:

import java.util.Scanner;

public class prime1{

public String name = "";

int age = 0;

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

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

int x = s.nextInt();

boolean isP = true;

for(int i =2;i<(x/2);i++)

if(i%2==0){

isP=false;

break;

}

if(isP){

System.out.println(x+ " is a Prime ");

}else{

System.out.println(x + " is not a prime ");

}

}}

7.SUM OF DIGITS:

import java.util.\*;

class SOD {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

System.out.println("ENTER A NUMBER TO FIND SUM OF DIGITS:");

int v = a.nextInt();

int temp =0;

int rem ;

while(v>0){

rem = v%10;

temp = temp +rem;

v=v/10;

}

System.out.println("SUM OF DIGITS:"+ temp);

}

}

8.MAX AND MIN OF ARRAY:

import java.util.\*;

class maxminofarr {

public static void main(String[] args) {

Scanner a= new Scanner(System.in);

System.out.println("ENTER THE NO.OF ELEMENTS:");

int v =a.nextInt();

int [] ar =new int[v];

for(int i =0; i<v;i++){

int k=a.nextInt();

ar[i]=k;

}

int min = ar[0];

int max = ar[0];

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

if(ar[i]>max){

max=ar[i];

}

if(ar[i]<min) {

min =ar[i];

}

}

System.out.println( "max"+max);

System.out.println("min"+min);

}

}

9.FIBIONIC SERIES:

import java.util.\*;

class fibionic {

public static void main(String[] args) {

Scanner v = new Scanner(System.in);

int a =0;

int b =1;

System.out.println("ENTER THE RANGE:");

int r =v.nextInt();

for(int i =0; i<r;i++){

System.out.println(a);

int t=a;

a=b;

b=t+b;

}

}

}

10.BANK MANAGEMENT:

import java.util.\*;

public class bank {

public String name = "";

int age = 0;

String mobile ;

Scanner s = new Scanner(System.in);

int accountno = 7868;

int balance = 0;

public static void main(String[] args) {

System.out.println("");

bank x = new bank();

x.startup();

}

public void startup(){

System.out.println(" \t\t\t WELCOME TO BANK \n");

System.out.println("\t\t\ttchoose................ ");

System.out.println("\t\t\t\t\t1.Account Creation 2.Login ");

int n = s.nextInt();

switch (n) {

case 1:

accountCreation();

break;

case 2:

login();

default:

break;

}

}

public void accountCreation(){

System.out.println("Create your account \n");

System.out.print("Enter your name : ");

name = s.next();

System.out.print("Enter your mobile no : ");

mobile = s.next();

System.out.print("Enter your age : ");

age = s.nextInt();

System.out.println("Account created succesfully");

System.out.println("Your account no is "+accountno);

System.out.println(" ");

home();

}

public void login(){

System.out.print("Enter your account number : ");

int acno = s.nextInt();

System.out.println("Enter your name ");

String cname = s.next();

if(name.equals(cname) && acno == accountno){

System.out.println(" ");

home();

}else{

System.out.println("Account doesn't exists");

System.out.println(" ");

accountCreation();

}

}

public void home(){

System.out.println("Enter your prefered option : ");

System.out.println(" 1.Deposit \n 2.Withdraw \n 3.Checkbalance \n 4.View details ");

int x = s.nextInt();

switch (x) {

case 1:

System.out.println(" ");

deposit();

break;

case 2:

System.out.println(" ");

withdraw();

break;

case 3:

System.out.println(" ");

checkBalance();

break;

case 4:

System.out.println(" ");

details();

break;

default:

System.out.println(" ");

System.out.println("Invalid input ");

home();

break;

}

}

public void deposit(){

System.out.println("Enter the amount to be deposited : ");

int amount = s.nextInt();

if(amount > 0){

balance += amount;

System.out.println("Amount added successfully");

System.out.println("Current balance is "+balance);

System.out.println(" ");

home();

}else{

System.out.println("Amount is very low");

System.out.println(" ");

deposit();

}

}

public void withdraw(){

System.out.print("Enter the amount to withdraw : ");

int amount = s.nextInt();

if(amount < balance){

balance -= amount;

System.out.println("Amount succesfully withdrawn ");

System.out.println("Cuurent balance "+balance);

System.out.println(" ");

home();

}else{

System.out.println("Insuffecient Balance ");

System.out.println(" ");

home();

}

}

public void details(){

System.out.println("Account no "+accountno);

System.out.println("Account holder name "+name);

System.out.println("Mobile no "+mobile+"\n");

System.out.println(" ");

home();

}

public void checkBalance(){

System.out.println("Your current balance is "+balance);

System.out.println(" ");

home();

}

}

11.QUOTIENT AND REMAINDER:

import java.util.\*;

class quandrem {

public static void main(String[] args) {

Scanner a= new Scanner(System.in);

System.out.println("enter a num:");

int v = a.nextInt();

System.out.println("ENTER NUMTO DIVIDE:");

int d= a.nextInt();

int q = v%d;

int r =v/d;

System.out.println("rem="+r);

System.out.println("qoutient=8"+q);

}

}

12.CHAR TO STRING AND STRING TO CHAR:

import java.util.\*;

class chtstr {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

System.out.println("ENTER A CHAR:");

char c = a.next().charAt(0);

String s = Character.toString(c);

System.out.println("\n\n\tTHE CONVERETED STRING ="+s);

System.out.println("ENTER A STRING TO CONVERT INTO CHARACTER:");

String str = a.next();

char cha =str.charAt(0);

System.out.println("THE CONVERTED:"+cha);

}

}

13.BUBBLE SORTING:

import java.util.Scanner;

public class bubble{

public String name = "";

int age = 0;

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

System.out.print("Enter the no of elements in your array : ");

int n = s.nextInt();

int arr[] = new int[n];

for(int i=0;i<n;i++){

System.out.print("Enter the "+(i+1)+" element : ");

int cur = s.nextInt();

arr[i] = cur;

}

int temp =0;

for(int i=n-1;i>=0;i--){

for(int j=0;j<i;j++){

if(arr[j] > arr[j+1]){

temp = arr[j];

arr[j] = arr[j+1];

arr[j+1] = temp;

}

}

}

for(int i=0;i<n;i++){

System.out.print(arr[i]+" ");

} }}

14.OCCURENCE OF CHAR IN STRING :

import java.util.\*;

class ocuurecne {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

String str = a.next();

int l = str.length();

System.out.println("ENTER A CHARACTER TO FIND:");

char f = a.next().charAt(0);

int c=0;

for (int i =0;i<l;i++){

if(f==str.charAt(i)){

c=c+1;

}

}

System.out.println(c);

}

}

15.VOWELS AND CONSONANT:

import java.util.\*;

class vowel {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

String str = a.next();

int l = str.length();

int c=0;

int r=0;

int [] g= {'a','e','i','o','u'};

for (int i =0;i<l;i++){

char va = Character.toLowerCase(str.charAt(i));

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

c=c+1;

}

else if (Character.isLetter(va)){

r=r+1;

}

}

System.out.println("vowels="+c);

System.out.println("constant="+r);

}

}

16.NO OF ELEMENTS IN A ARRAY:

import java.util.\*;

class noarray {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

System.out.println("enter the arry size:");

int l =a.nextInt();

int [] ar= new int [l];

int n= ar.length;

int c=0;

for (int i =0;i<n;i++){

System.out.println("ENTER THE NUMBER FOR ARRAY:");

int f = a.nextInt();

ar[i] =f;

c=c+1;

}

System.out.println(c +" total elements in array");

}

}

17.AVEARAGE OF NUMBERS IN A ARRAY:

import java.util.\*;

class avg {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

System.out.println("enter the arry size:");

int l =a.nextInt();

int [] ar= new int [l];

int n= ar.length;

int s=0;

for (int i =0;i<n;i++){

System.out.println("ENTER THE NUMBER FOR ARRAY:");

int f = a.nextInt();

ar[i] =f;

s=s+ar[i];

}

int t= s/ar.length;

System.out.println(t +" average3");

}

}

18.SORTING OF ARRAY:

import java.util.\*;

class sort {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

System.out.println("enter the arry size:");

int l =a.nextInt();

int [] ar= new int [l];

int n= ar.length;

int s=0;

for (int i =0;i<n;i++){

System.out.println("ENTER THE NUMBER FOR ARRAY:");

int f = a.nextInt();

ar[i] =f;

}

for (int k =0;k<n;k++){

for(int j =k; j<n;j++){

if(ar[j]<ar[k]){

int temp =ar[k];

ar[k]=ar[j];

ar[j]=temp;

}

}

}

System.out.println("After");

for (int o=0;o<n;o++){

System.out.println("{"+ar[o]+"}");

}

}

}

19.CHARACTER ARRAY TO STRING:

import java.util.\*;

class chto {

public static void main(String[] args) {

Scanner a = new Scanner(System.in);

System.out.println("enter the arry size:");

int l =a.nextInt();

Character [] ar= new Character[l];

int n= ar.length;

String s="";

for (int i =0;i<n;i++){

System.out.println("ENTER THE NUMBER FOR ARRAY:");

char f = a.next().charAt(0);

ar[i] =f;

}

System.out.println("After");

for (int o=0;o<n;o++){

s=s+ar[o];

}

System.out.println(s);

}

}

20.OPERATOR OVERLOADING:

import java.util.Scanner;

class Student {

private String name;

private int age;

private String department;

public Student(String name) {

this.name = name;

}

public Student(String name, int age) {

this.name = name;

this.age = age;

}

public Student(String name, int age, String department) {

this.name = name;

this.age = age;

this.department = department;

}

public void display() {

System.out.println("The student's name is " + this.name);

if (this.age != 0) {

System.out.println("The student's age is " + this.age);

}

if (this.department != null) {

System.out.println("The student's department is " + this.department);

}

System.out.println();

}

}

public class UniversityManagement {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.println("Enter the name:");

String name1 = scanner.next();

Student onlyname = new Student(name1);

onlyname.display();

System.out.println("Enter the name:");

String name2 = scanner.next();

System.out.println("Enter the age:");

int age2 = scanner.nextInt();

Student nameage = new Student(name2, age2);

nameage.display();

System.out.println("Enter the name:");

String name3 = scanner.next();

System.out.println("Enter the age:");

int age3 = scanner.nextInt();

System.out.println("Enter the department:");

String department3 = scanner.next();

Student nameagedep = new Student(name3, age3, department3);

nameagedep.display();

scanner.close();

}

}

21.Calculator:

class Calculator{

private int sum = 0;

private String ssum = "";

private double dsum;

public void add(int a, int b){

this.sum = a+b;

}

public void add(double a,double b){

this.dsum = a+b;

}

public void add(int a,int b,int c){

this.sum = a+b+c;

}

public void add(String a,String b){

this.ssum = a.concat(b);

}

public void displayResult(){

if(sum !=0){

System.out.println(sum);

}else if(!ssum.equals("")){

System.out.println(ssum);

}else if(dsum != 0){

System.out.println(dsum);

}

}}

public class we {

public static void main(String[] args) {

Calculator x = new Calculator();

x.add(2,3);

x.displayResult();

Calculator y = new Calculator();

y.add(25,15,32);

y.displayResult();

Calculator z = new Calculator();

z.add(6.33,9.65);

z.displayResult();

Calculator a = new Calculator();

a.add("kpr.............kprrrrr ","");

a.displayResult();

}}