CSA0985 -- PROGRAMMING IN JAVA

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1)Write a java program to calculate average value of array of elements?

class average

{

public static void main(String[] args)

{

int[] numarray={10,20,46,37,68,89};

int sum=0;

for(int num: numarray)

{

sum+=num;

}

int average=sum/numarray.length;

System.out.println("the average value is: "+average);

}

}

2) Write a java program to find minimum and maximum value of an array?

class minmax

{

public static void main(String[] args)

{

int [] arr={12,45,34,78,21,89,54,10,9};

int min=arr[0];

int max=arr[0];

for(int i=1;i<arr.length;i++)

{

if(arr[i]<min)

{

min=arr[i];

}

if(arr[i]>max)

{

max=arr[i];

}

}

System.out.println("minimum value: "+min);

System.out.println("maximum value: "+max);

}

}

3)Write a java program to find second largest number in array?

class second

{

public static void main(String args[])

{

int temp, size;

int array[] = {20, 50, 25, 83, 99, 77};

size = array.length;

for(int i=0;i<size;i++ )

{

for(int j=i+1;j<size;j++)

{

if(array[i]>array[j])

{

temp=array[i];

array[i]=array[j];

array[j]=temp;

}

}

}

System.out.println("Second largest number is: "+array[size-2]);

}

}

4)Write a java program to add two matrix of same size?

class matrix

{

public static void main(String[] args)

{

int rows = 3, columns = 3;

int[][] firstMatrix = { {2, 3, 4}, {5, 2, 3},{3,7,8} };

int[][] secondMatrix = { {-4, 5, 3}, {5, 6, 3},{2,9,6} };

int[][] sum = new int[rows][columns];

for(int i = 0; i < rows; i++)

{

for (int j = 0; j < columns; j++)

{

sum[i][j] = firstMatrix[i][j] + secondMatrix[i][j];

}

}

System.out.println("Sum of two matrices is: ");

for(int[] row : sum)

{

for (int column : row)

{

System.out.print(column + " ");

}

System.out.println();

}

}

}

5)Write a program to display cube of given number up to integer?

class matrix

{

public static void main(String[] args)

{

int rows = 3, columns = 3;

int[][] firstMatrix = { {2, 3, 4}, {5, 2, 3},{3,7,8} };

int[][] secondMatrix = { {-4, 5, 3}, {5, 6, 3},{2,9,6} };

int[][] sum = new int[rows][columns];

for(int i = 0; i < rows; i++)

{

for (int j = 0; j < columns; j++)

{

sum[i][j] = firstMatrix[i][j] + secondMatrix[i][j];

}

}

System.out.println("Sum of two matrices is: ");

for(int[] row : sum)

{

for (int column : row)

{

System.out.print(column + " ");

}

System.out.println();

}

}

}

6)Take a year from user and find it is leap year or not?

import java.util.Scanner;

class leap

{

public static void main(String[] args)

{

int a;

Scanner input=new Scanner(System.in);

System.out.println("Enter the a value:");

a=input.nextInt();

{

if(a%4==0)

{

System.out.println("a is Leap year");

}

else

{

System.out.println("a is Non-leap year");

}

}

}

}

7)Write a java program to display n terms of natural numbers and it’s sum?

import java.util.Scanner;

class natural

{

public static void main(String[] args)

{

int n,sum=0;

Scanner input=new Scanner(System.in);

System.out.println("Enter the value of n:");

n=input.nextInt();

for(int i=1;i<=n;i++)

{

System.out.println(i);

}

sum=n\*(n+1)/2;

System.out.println("sum of "+ n +" numbers= "+sum);

}

}

8)Write a java program to display multiplication table of given integer?

import java.util.Scanner;

class table

{

public static void main(String args[])

{

System.out.println("Enter an integer variable :: ");

Scanner sc = new Scanner(System.in);

int num = sc.nextInt();

for(int i=1; i<= 10; i++)

{

System.out.println(""+num+" X "+i+" = "+(num\*i));

}

}

}