

CSA0985 – PROGRAMMING IN JAVA FOR MOBILE APPLICATIONS.

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

Ans : *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?

Ans : *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?

Ans : *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?

Ans : *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?

Ans : *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. Write a java program to consider a year from user and find it is leap year or not?

Ans : `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?

Ans : *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?

Ans : *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));

        }

    }

}

```