

## 1. Addition of Three numbers

### PROGRAM:

```
import java.util.Scanner;
public class nani
{
    public static void main(String[] args)
    {
        Scanner input=new Scanner(System.in);
        int n1,n2,n3,sum=0;
        System.out.println("enter the number 1: ");
        n1=input.nextInt();
        System.out.println("enter the number 2: ");
        n2=input.nextInt();
        System.out.println("enter the number 3: ");
        n3=input.nextInt();
        sum=n1+n2+n3;
        System.out.println("sum is : "+ sum);
    }
}
```

### Output

```
java -cp /tmp/MABPwDEVLV/nani
enter the number 1:
2
enter the number 2:
3
enter the number 3:
4
sum is : 9

=== Code Execution Successful ===
```

## 2. Addition of two matrices

### PROGRAM:

```
import java.util.Scanner;
public class Matrixaddition
{
    public static void main(String[] args)
    {
        Scanner input=new Scanner(System.in);
        int r,c;
        System.out.print("enter the number of rows ");
        r=input.nextInt();
        System.out.print("enter the number of columns ");
        c=input.nextInt();
        int i,j;
        int a[][]=new int[r][c];
        int b[][]=new int[r][c];
        int d[][]=new int[r][c];
        System.out.println("ente rthe first matrix elements ");
        for(i=0;i<r;i++)
        {
            for(j=0;j<c;j++)
            {
                a[i][j]=input.nextInt();
            }
            System.out.println();
        }
        System.out.println("ente rthe second matrix elements ");
        for(i=0;i<r;i++)
        {
            for(j=0;j<c;j++)
            {
                b[i][j]=input.nextInt();
            }
            System.out.println();
        }
        System.out.print("the sum of matrices elements is ");
```

```

        for(i=0;i<r;i++)
        {
            for(j=0;j<c;j++)
            {
                d[i][j]=a[i][j]+b[i][j];
                System.out.print(d[i][j]+" ");
            }
            System.out.println();
        }
    }
}

```

### Output

```

java -cp /tmp/sjAkswg7zs/Matrixaddition
enter the number of rows 2
enter the number of columns 2
ente rthe first matrix elements
1
1

1
1

ente rthe second matrix elements
1
1

1
1

the sum of matrices elements is  2 2
2 2

=== Code Execution Successful ===

```

### 3. Arrange the Array elements in Ascending Order

**PROGRAM:**

```
import java.util.Scanner;
public class order
{
    public static void main(String[] args)
    {
        Scanner input=new Scanner(System.in);
        int n,i,j;
        System.out.println("enter the array size: ");
        n=input.nextInt();
        int arr[]=new int[n];
        System.out.println("enter the array elements: ");
        for(i=0;i<n;i++)
        {
            arr[i]=input.nextInt();
        }
        for(i=0;i<n-1;i++)
        {
            for(j=0;j<n-i-1;j++)
            {
                if(arr[j]>arr[j+1])
                {
                    int temp=arr[j];
                    arr[j]=arr[j+1];
                    arr[j+1]=temp;
                }
            }
        }
        System.out.print("order of the array elements is : ");
        for(i=0;i<n;i++)
        {
            System.out.println(arr[i]);
        }
    }
}
```

## Output

```
java -cp /tmp/q22sK00tEV/Matrixaddition
enter the array size:
5
enter the array elements:
9
1
7
5
8
order of the array elements is : 1
5
7
8
9

=== Code Execution Successful ===
```

#### 4. Arrange the letters in alphabetical order

##### PROGRAM:

```
import java.util.Scanner;
import java.util.Arrays;

public class LetterSort
{
    public static void main(String[] args)
    {
        Scanner input = new Scanner(System.in);
        System.out.print("Enter a word: ");
        String word = input.nextLine();
        char[] letters = word.toCharArray();
        Arrays.sort(letters);
        String sortedWord = new String(letters);
        System.out.println("Letters in alphabetical order: " + sortedWord);
    }
}
```

```
        input.close();
    }
}
```

```
java -cp /tmp/e63Wtg8oGV/LetterSort
Enter a word: good boy
Letters in alphabetical order: bdgooyo
=== Code Execution Successful ===
```

## 5.Reverse a String

### PROGRAM:

```
import java.util.Scanner;
public class LetterSort
{
    public static void main(String[] args)
    {
        Scanner input = new Scanner(System.in);
        String s;
        System.out.print("Enter a string: ");
        s=input.nextLine();
        System.out.print("reversed string is : ");
        for(int i=s.length()-1;i>=0;i--)
        {
            System.out.print(s.charAt(i));
        }
    }
}
```

### Output

```
java -cp /tmp/HQ5ZFKHlc3/LetterSort
Enter a string: good boy
reversed string is : yob doog
=== Code Execution Successful ===
```