**//Factorial Number**

public class TestArray {

public static void main(String[] args) {

int number=4;

int fact=1;

for(int i=number;i>=1;i--)

fact=fact\*i;

System.out.println("Factorial of Number " + number + " is " + fact);

**//Prime Numbers**

for(int i=0; i<=50;i++){

int n=i/2, flag=0;

if(i==0||i==1)

System.out.println(i + " is not prime Number");

else{

for(int j=2;j<=n;j++)

{

if(i%j==0){

System.out.println(i + " is not prime Number");

flag=1;

break;

}

}

if(flag==0){

System.out.println(i +" is prime number");

}

}

}

}

}

// Smallest Number in Array

public class TestArray {

public static void main(String[] args) {

int[] testArr={23,12,-23,56,4,78,56,23,43};

int small=testArr[0];

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

{

if(testArr[i]< small)

small=testArr[i];

}

System.out.println("Smallest Number is:"+ small);

**//Second Smallest Number in Array**

int sec\_Smallest=testArr[0];

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

{

if(testArr[i]< sec\_Smallest && testArr[i]!=small)

sec\_Smallest=testArr[i];

}

System.out.println("Second Smallest Number is:"+ sec\_Smallest);

}

}

//String Operations

public class SortString {

public static void main(String[] args) {

String original\_String="mom";

char temp=0;

int i=0, j=0;

char[] charArray=original\_String.toCharArray();

for(i=0;i<charArray.length;i++)

{

for(j=0;j<charArray.length;j++)

{

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

{

temp=charArray[i];

charArray[i]=charArray[j];

charArray[j]=temp;

}

}

}

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

System.out.print(charArray[i]);

}

**//String Reverse**

String reverse\_String="";

for(i=original\_String.length()-1;i>=0;i--)

reverse\_String +=original\_String.charAt(i);

System.out.println();

System.out.println(reverse\_String);

if(original\_String.equals(reverse\_String))

System.out.println("Palindrome");

else

System.out.println("Not Palindrome");

}

}