**======Find out the Conditional Sum until input 0(or any number)=======**

public static void main(String[] args) {

Scanner se = new Scanner(System.in);

System.out.println("Enter the sum numbers: ");

int sum = 0;

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

int a = se.nextInt();

if (a != 0) {

sum += a;

} else {

System.out.println("Total Sum is: " + sum);

}

}

}

**======== Email Validation==========**

public static void main(String[] args) {

Scanner s = new Scanner(System.in);

System.out.println("Enter Email: ");

String email = s.nextLine();

int at = email.indexOf("@");

int dot = email.indexOf(".");

if (at > 0 && dot < email.length() - 2 && at < dot - 1) {

System.out.println("Email is valid");

} else {

System.out.println("Email is invalid");

}

}

**======= Find out the Factorial number from n value ===========**

public static void main(String[] args) {

Scanner se = new Scanner(System.in);

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

int n = se.nextInt();

int fact = 1;

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

fact = fact \* i;

}

System.out.println("The Factorial number is: " + fact);

}

**Big** **Factorial🡺**

public static void main(String[] args) {

Scanner se = new Scanner(System.in);

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

int fact = se.nextInt();

getFactorials(fact);

}

static void getFactorials(int n) {

BigInteger f = BigInteger.valueOf(1);

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

f = f.multiply(BigInteger.valueOf(i)); // f= f \* i

}

System.out.println("The factorial number " + n + " is: " + f);

}

**======== Sort the Array in Ascending/ Reverse/ descending Order ======**

**Ascending Order🡺**

public static void main(String[] args) {

int[] a = {4, 2, 1, 8, 6, 9};

Arrays.sort(a);

for (int j : a) {

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

}

}

**Array Reverse🡺**

public static void main(String[] args) {

Integer [] c = {4, 2, 1, 8, 6, 9};

Arrays.sort(c);

Collections.reverse(Arrays.asList(c));

System.out.println("Modifies array: " + Arrays.toString(c));

}

}

**descending Order🡺**

public static void main(String[] args) {

Integer [] c = {4, 2, 1, 8, 6, 9};

Arrays.sort(c);

Collections.reverse(Arrays.asList(c));

System.out.println("Modifies array: " + Arrays.toString(c));

}

}

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**Round-37**

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