**import** java.util.Scanner;

**public class** Example {

**public static void** printAddress(){

System.***out***.println(**"Institute Of Java"**);

System.***out***.println(**"No.22A"**);

System.***out***.println(**"Galle rd"**);

System.***out***.println(**"Panadura"**);

}

**public static void** main(String[] args) {

*printAddress*();

*printAddress*();

*printAddress*();

*printAddress*();

}

}

===================

**import** java.util.Scanner;

**public class** Example {

**public static void** printSum(){

Scanner scanner= **new** Scanner(System.***in***);

System.***out***.println(**"Insert two Numbers"**);

**int** num1=scanner.nextInt();

**int** num2=scanner.nextInt();

System.***out***.println(**"Total : "**+(num1+num2));

}

**public static void** main(String[] args) {

*printSum*();

}

}

==============================

import java.util.Scanner;

public class Example {

public static void printSum(int num1,int num2){

System.out.println("Total : "+(num1+num2));

}

public static void main(String[] args) {

Scanner scanner= new Scanner(System.in);

System.out.println("Insert 2 Numbers");

int num1= scanner.nextInt();

int num2= scanner.nextInt();

printSum(num1,num2);

}

}

============================

**import** java.util.Scanner;

**public class** Example {

**public static void** printSum(**int** num1,**int** num2){

System.***out***.println(**"Total : "**+(num1+num2));

}

**public static void** main(String[] args) {

Scanner scanner= **new** Scanner(System.***in***);

System.***out***.println(**"Insert 2 Numbers"**);

*printSum*(scanner.nextInt(),scanner.nextInt());

}

}

=====================

**import** java.util.Scanner;

**public class** Example {

**public static void** printSum(**int** num1,**int** num2){

System.***out***.println(**"Total : "**+(num1+num2));

}

**public static void** main(String[] args) {

System.***out***.println(**"Insert 2 Numbers"**);

*printSum*(**new** Scanner(System.***in***).nextInt(),**new** Scanner(System.***in***).nextInt());

}

}

================================

**import** java.util.Scanner;

**public class** Example {

**public static int** printSum(**int** num1,**int** num2){

**return** num1+num2;

}

**public static void** main(String[] args) {

System.***out***.println(**"Insert 2 Numbers"**);

**int** sum=*printSum*(**new** Scanner(System.***in***).nextInt(),**new** Scanner(System.***in***).nextInt());

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

}

}

==========================

**import** java.util.Scanner;

**public class** Example {

**public static void** main(String[] args) {

Scanner scanner= **new** Scanner(System.***in***);

System.***out***.println(**"Input an Integer : "**);

**int** num=scanner.nextInt();

System.***out***.println(**"Reverse of "**+num+**" : "**+*reverse*(num)); *// expected Answer 1234 --> 4321*

}

**public static int** reverse(**int** num){

*//*

}

}

===========================

**import** java.util.Scanner;

**public class** Example {

**public static void** main(String[] args) {

Scanner scanner= **new** Scanner(System.***in***);

System.***out***.println(**"Input an Integer : "**);

**int** num=scanner.nextInt();

System.***out***.println(**"Reverse of "**+num+**" : "**+*reverse*(num)); *// expected Answer 1234 --> 4321*

}

**public static int** reverse(**int** num){

**int** numOfReverse=0;

**while** (num!=0){

numOfReverse\*=10;

numOfReverse+=num%10;

num/=10;

}

**return** numOfReverse;

}

}

========================

**import** java.util.Scanner;

**public class** Example {

**public static void** main(String[] args) {

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.println(**"Input Marks : "**);

**double** avg = scanner.nextDouble();

**char** grade = *findGrade*(avg);

System.***out***.println(**"The Grade is : "** + grade);

}

**public static char** findGrade(**double** avg) {

}

}

=========================

**import** java.util.Scanner;

**public class** Example {

**public static void** main(String[] args) {

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.println(**"Input Marks : "**);

**double** avg = scanner.nextDouble();

**char** grade = *findGrade*(avg);

System.***out***.println(**"The Grade is : "** + grade);

}

**public static char** findGrade(**double** avg) {

**char** grade;

**if** (avg>=85){

grade=**'A'**;

}**else if**(avg>=75){

grade=**'B'**;

}**else if**(avg>=65){

grade=**'C'**;

}**else**{

grade=**'F'**;

}

**return** grade;

}

}

==============

Method Calling Stack \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

==============

**import** java.util.Scanner;

**public class** Example {

**public static void** increment() {

**int** x = 100;

System.***out***.println(**"X : "** + x);

x++;

System.***out***.println(**"X : "** + x);

}

**public static void** main(String[] args) {

**int** x = 100;

System.***out***.println(**"X : "** + x);

*increment*();

System.***out***.println(**"X : "** + x);

}

}

==============================

**import** java.util.Scanner;

**public class** Example {

**public static void** increment(**int** x) {

System.***out***.println(**"X : "** + x);

x++;

System.***out***.println(**"X : "** + x);

}

**public static void** main(String[] args) {

**int** x = 100;

System.***out***.println(**"X : "** + x);

*increment*(x);

System.***out***.println(**"X : "** + x);

}

}

===============================================

**import** java.util.Scanner;

**public class** Example {

**public static int** increment(**int** x) {

System.***out***.println(**"X : "** + x); *// 100 2 //100 5 // 101 8*

x++;

System.***out***.println(**"X : "** + x); *// 101 3 // 101 6 // 102 9*

**return** x;

}

**public static void** main(String[] args) {

**int** x = 100;

System.***out***.println(**"X : "** + x); *// 100 1*

*increment*(x);

System.***out***.println(**"X : "** + x); *// 100 4*

x= *increment*(x);

System.***out***.println(**"X : "** + x); *// 101 7*

x=*increment*(x);

System.***out***.println(**"X : "** + x); *//102 10*

}

}

===================================

Rules Of Method Declaration

===================================

**public class** Example {

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

*myMethod*();

System.***out***.println(**"End main"**);

}

**private static void** myMethod() {

System.***out***.println(**"MyMethod()"**);

}

}

========================

**public class** Example {

**public static void** main(String[] args) {

**private static void** myMethod() {

System.***out***.println(**"MyMethod()"**);

}

System.***out***.println(**"Start Main"**);

myMethod(); *// illegal*

System.***out***.println(**"End main"**);

}

}

================================

**public class** Example {

**public static void** printTotal(**int** num1,**int** num2){

**int** tot;

tot=num1+num2;

System.***out***.println(tot);

}

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

*printTotal*();*//// illegal*

System.***out***.println(**"End Main"**);

}

}

=========================

**public class** Example {

**public static void** printTotal(**int** num1,**int** num2){

**int** tot;

**int** num1=30; *// illegal*

tot=num1+num2;

System.***out***.println(tot);

}

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

*printTotal*(10,20);

System.***out***.println(**"End Main"**);

}

}

================================

**public class** Example {

*// break;*

*// continue;*

*// return;*

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

**for** (**int** i = 0; i <10 ; i++) {

**if** (i==5){

**break**;

}

System.***out***.println(**"i : "**+i);

}

System.***out***.println(**"End Main"**);

}

}

=====================

**public class** Example {

*// break;*

*// continue;*

*// return;*

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

**for** (**int** i = 0; i <10 ; i++) {

**if** (i==5){

**continue**;

}

System.***out***.println(**"i : "**+i);

}

System.***out***.println(**"End Main"**);

}

}

========================

**public class** Example {

*// break;*

*// continue;*

*// return;*

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

**for** (**int** i = 0; i < 10; i++) {

**if** (i == 5) {

*//int x = 10;*

**return**; *// last Statement*

**int** x = 10; *// illegal*

}

System.***out***.println(**"i : "** + i);

}

System.***out***.println(**"End Main"**);

}

}

=========================

**public class** Example {

*// break;*

*// continue;*

*// return;*

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

**for** (**int** i = 0; i < 5; i++) {

**for** (**int** j = 0; j < 5; j++) {

**if** (j==2){

**break**;

}

System.***out***.println(**"J : "** + j);

}

System.***out***.println(**" i : "** + i);

}

System.***out***.println(**"End Main"**);

}

}

-=====================

**public class** Example {

*// break;*

*// continue;*

*// return;*

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

**for** (**int** i = 0; i < 5; i++) {

**for** (**int** j = 0; j < 5; j++) {

**if** (j==2){

**continue**;

}

System.***out***.println(**"J : "** + j);

}

System.***out***.println(**" i : "** + i);

}

System.***out***.println(**"End Main"**);

}

}

===================

**public class** Example {

*// break;*

*// continue;*

*// return;*

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

**for** (**int** i = 0; i < 5; i++) {

**for** (**int** j = 0; j < 5; j++) {

**if** (j==2){

**return**;

}

System.***out***.println(**"J : "** + j);

}

System.***out***.println(**" i : "** + i);

}

System.***out***.println(**"End Main"**);

}

}

======================

**public class** Example {

*// break;*

*// continue;*

*// return;*

**public static void** main(String[] args) {

System.***out***.println(**"Start Main"**);

OUTER:

**for** (**int** i = 0; i < 5; i++) {

INNER:

**for** (**int** j = 0; j < 5; j++) {

**if** (j == 2) {

**break** OUTER;

}

System.***out***.println(**"J : "** + j);

}

System.***out***.println(**" i : "** + i);

}

System.***out***.println(**"End Main"**);

}

}

======================

// Method OverLoading

======================

Arrays--- > 18

OOP ---- 21

OOP ---> 25

----------------------------------

JDBC

----------------------

Mysql

---------------------

Java FX

--------------------

MVC

-------------------

Layered

---------------------

Regex

================

**public class** Example {

**public static void** myMethod(**int** a){

System.***out***.println(**"myMethod(int)"**);

}

**public static void** myMethod(**double** a){

System.***out***.println(**"myMethod(Double)"**);

}

**public static void** main(String[] args) {

*myMethod*(21); *// invoke*

*myMethod*(2.1);

*myMethod*(5);

}

}

=====================

**public class** Example { *// compileTime Polimorpic*

**public static void** myMethod(**int** a){

System.***out***.println(**"myMethod(int)"**);

}

**public static void** myMethod(**int** a,**int** b){

System.***out***.println(**"myMethod(int , int )"**);

}

**public static void** main(String[] args) {

*myMethod*(21); *// invoke*

*myMethod*(21,31);

}

}

=================

**public class** Example { *// compileTime Polimorpic*

**public static void** myMethod(**int** a, **double** d){

System.***out***.println(**"myMethod(int,double)"**);

}

**public static void** myMethod(**double** d,**int** a){

System.***out***.println(**"myMethod(int , int )"**);

}

**public static void** main(String[] args) {

*myMethod*(21,50.0); *// invoke*

*myMethod*(2.5,31);

}

}

================

**public class** Example { *// compileTime Polimorpic*

**public static void** myMethod(**int** a, **double** d){

System.***out***.println(**"myMethod(int,double)"**);

}

**public static void** myMethod(**double** d,**int** a){

System.***out***.println(**"myMethod(int , int )"**);

}

*/\* static void get(double d){}\*/*

**public static void** main(String[] args) {

*myMethod*(21,5.0); *// invoke*

*myMethod*(2.5,31);

*/\* get(10);\*/*

}

}

=======================

**public class** Example { *// compileTime Polimorpic*

**public static void** myMethod(**int** a){

System.***out***.println(**"myMethod(int,double)"**);

}

**public static void** myMethod(**int** b){ *// illegal*

System.***out***.println(**"myMethod(int , int )"**);

}

**public static void** main(String[] args) {

myMethod(10); *// invoke*

myMethod(20);

}

}

============================

**public class** Example { *// compileTime Polimorpic*

**public static int** myMethod(**int** a){

System.***out***.println(**"myMethod(int a)"**);

**return** 100;

}

**public static double** myMethod(**int** b){

System.***out***.println(**"myMethod(int b )"**);

**return** 12.35;

}

**public static void** main(String[] args) {

}

}

===================================

**public class** Example {

**public static int** fact(**int** num){

**if** (num==0){

**return** 1;

}**else**{

**return** num \**fact*(num-1);

}

}

**public static void** main(String[] args) {

**for** (**int** i = 0; i <10 ; i++) {

**int** f=*fact*(i);

System.***out***.println(i+ **" ! "**+f);

}

}

}

============

**public class** Example {

**public static int** fact(**int** num){

**return** num==0 ? 1 : num\**fact*(num-1);

}

**public static void** main(String[] args) {

**for** (**int** i = 0; i <10 ; i++) {

**int** f=*fact*(i);

System.***out***.println(i+ **" ! "**+f);

}

}

}