**JAVA PROGRAMS**

**JAVA PRACTICE PROGRAMS:**

**ARITHEMATIC:**

package Java\_Practice\_program;

public class Arithmatic\_calculation {

public static void main(String[] args) {

int num\_1=10;

int num\_2=5;

System.***out***.println("first number:"+(num\_1));

System.***out***.println("second number:"+(num\_2));

System.***out***.println("add:"+(num\_1+num\_2));

System.***out***.println("sub:"+(num\_1-num\_2));

System.***out***.println("mul:"+(num\_1\*num\_2));

System.***out***.println("div:"+(num\_1/num\_2));

}

}

**DATA CONVERSION:**

package Java\_Practice\_program;

public class DataConversion {

public static void main(String[] args) {

int a=5;

double b=a;

System.***out***.println("Int value:"+a);

System.***out***.println("Double value:"+b);

double x=9.7;

int y=(int)x;

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

System.***out***.println("Int value:"+y);

}

}

**DEFAULT EXAMPLE:**

package Java\_Practice\_program;

public class DefaultExample {

String message="default Access";

void show() {

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

}

public static void main(String[] args) {

DefaultExample obj=new DefaultExample();

obj.show();

}

}

**DECLARATION:**

package Java\_Practice\_program;

public class Declaration {

public static void main(String[] args) {

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

}

}

**DO WHILE:**

package Java\_Practice\_program;

public class Do\_While {

public static void main(String[] args) {

int i=1;

do {

System.***out***.println("Hello Welcome");

i++;

}

while(i<=1);

}

}

**FOR LOOP:**

package Java\_Practice\_program;

public class For\_loop {

public static void main(String[] args) {

// For Loop from 1 to 10

for(int i=1;i<=10;i++) {

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

}

}

}

**FUNCTION:**

package Java\_Practice\_program;

public class Fuction {

//function to add two numbers

public static int addNumbers(int a,int b) {

return a + b;

}

public static void main(String[] args) {

int num1=10;

int num2=20;

// calling the function

int sum=*addNumbers*(num1,num2);

System.***out***.println("first number:"+num1);

System.***out***.println("second number:"+num2);

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

}

}

**IF CONDITION:**

package Java\_Practice\_program;

public class If\_condition {

public static void main(String[] args) {

int i=1;

if(i>=0) {

System.***out***.println("the num is odd");

}

System.***out***.println("program finished");

}

}

**IF ELSE:**

package Java\_Practice\_program;

public class if\_else {

public static void main(String[] args) {

int num=-1;

if(num>=0) {

System.***out***.println("the num is positive");

}

else {

System.***out***.println("the num is negative");

}

}

}

**IF ELSE IF:**

package Java\_Practice\_program;

public class If\_else\_if {

public static void main(String[] args) {

int score=84;

char grade;

if(score>=90) {

grade='A';

}else if(score>=80) {

grade='B';

}else if(score>=70) {

grade='C';

}else if(score>=60) {

grade='D';

}else {

grade='F';

}

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

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

}

}

**INITIALISATION:**

**package Java\_Practice**\_program;

public class Intialisation {

public static void main(String[] args) {

int a=15;

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

}

}

**NESTED IF:**

package Java\_Practice\_program;

public class Nested\_if {

public static void main(String[] args) {

int num=32;

if(num>=0) {

System.***out***.println("the num is positive");

if(num%2==0) {

System.***out***.println("the num is even");

}

else {

System.***out***.println("the num is odd");

}

}

else {

System.***out***.println("the num negative");

}

}

}

**PERSONAL INFORMATION:**

package Java\_Practice\_program;

public class Personal\_information {

public static void main(String[] args) {

// display personal information

System.***out***.println("name:lucky");

System.***out***.println("age:20");

System.***out***.println("gender:female");

System.***out***.println("college:AITS");

System.***out***.println("branch:ECE");

System.***out***.println("hobbies:reading,music,coding");

}

}

**PRINT STATEMENT:**

package Java\_Practice\_program;

public class PrintStatement {

public static void main(String[] args) {

System.***out***.println("hai welcome");

}

}

**PRIVATE EXAMPLE:**

package Java\_Practice\_program;

public class PrivateExample {

private String secret="private Access";

private void show() {

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

}

public static void main(String[] args) {

PrivateExample obj=new PrivateExample();

obj.show();

}

}

**PROTECTED EXAMPLE:**

package Java\_Practice\_program;

public class ProtectedExample {

protected String data="protected access";

protected void show() {

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

}

public static void main(String[] args) {

ProtectedExample obj=new ProtectedExample();

obj.show();

}

}

**PUBLIC EXAMPLE:**

package Java\_Practice\_program;

public class PublicExample {

public String name="public Access";

public void show() {

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

}

public static void main(String[] args) {

PublicExample obj=new PublicExample();

obj.show();// accessible from anywhere

}

}

**SCANNER:**

package Java\_Practice\_program;

import java.util.Scanner;

public class Scann {

public static void main(String[] args) {

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

System.***out***.print("Enter two numbers: ");

int sum = sc.nextInt() + sc.nextInt();

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

sc.close();

}

}

**STATIC VARIABLE:**

package Java\_Practice\_program;

public class Static {

//static variable

static String *collegeName*="AITS";

public static void main(String[] args) {

System.***out***.println("welcome to"+*collegeName*);

}

}

**SWITCH CASE:**

package Java\_Practice\_program;

public class switch\_case {

public static void main(String[] args) {

int day = 3;

// The switch statement evaluates the 'day' variable

switch (day) {

case 1:

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

break; // Exits the switch statement

case 2:

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

break;

case 3:

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

break;

case 4:

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

break;

case 5:

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

break;

case 6:

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

break;

case 7:

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

break;

default: // Executed if no case matches

System.***out***.println("Invalid day");

}

}

}

**TYPE CASTING:**

package Java\_Practice\_program;

public class TypeCasting {

public static void main(String[] args) {

double num=9.8;

int castedNum=(int)num;

System.***out***.println("Original double:"+num);

System.***out***.println("After casting to int:"+castedNum);

}

}

**VARIABLE VALUE:**

package Java\_Practice\_program;

public class Variable\_value {

public static void main(String[] args) {

int number=25;

String name="lucky";

System.***out***.println("Number:"+number);

System.***out***.println("Name:"+name);

}

}

**WHILE LOOP:**

package Java\_Practice\_program;

public class While\_loop {

public static void main(String[] args) {

int i=1;

while(i<=5) {

System.***out***.println(0);

i++;

}

}

}

**ARITHEMATIC OPERATION1:**

package Java\_Practice\_program;

public class Arithematic\_operation1 {

public int sum(int a, int b)

{

int c = a + b;

return c;

}

}

**JAVA EXERCISE PROGRAMS:**

**CALLING ARITHEMATIC**:

package Java\_Exercise\_program;

import Java\_Practice\_program.Arithematic\_operation1;

public class calling\_arithematic {

public static void main(String[] args) {

Arithematic\_operation1 obj=new Arithematic\_operation1() ;

System.***out***.print(obj.sum(6, 6));

}

}