### Automation Proficient

**100 Java Programs**

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# Simple Java Program

**class** HelloWorld

{

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

{

System.out.println("Hello World by Technolamror");

}

}

# Print Integer in java

**class** Integers {

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

**int** c; *//declaring a variable*

*/\* Using for loop to repeat instruction execution \*/*

**for** (c = 1; c <= 10; c++) { System.out.println(c);

}

}

}

1. **Command Line Argument in java**

**class** Arguments {

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

**for** (String t: args) { System.out.println(t);

}

}

}

# How to get Using input using Scanner Program in java

**import** java.util.Scanner;

**class** GetInputFromUser

{

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

{

**int** a; **float** b; String s;

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

System.out.println("Enter a string"); s = in.nextLine();

System.out.println("You entered string "+s);

System.out.println("Enter an integer"); a = in.nextInt();

System.out.println("You entered integer "+a);

System.out.println("Enter a float"); b = in.nextFloat();

System.out.println("You entered float "+b);

}

}

# How to convert Fahrenheit to Celsius Program in java

**import** java.util.\*;

**class** FahrenheitToCelsius {

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

**float** temperatue;

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

System.out.println("Enter temperatue in Fahrenheit"); temperatue = in.nextInt();

temperatue = ((temperatue - 32)\*5)/9;

System.out.println("Temperatue in Celsius = " + temperatue);

}

}

# How to swap 2 no using 3rd variable Program in java

**import** java.util.Scanner;

**class** SwapNumbers

{

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

{

**int** x, y, temp; System.out.println("Enter x and y"); Scanner in = **new** Scanner(System.in);

x = in.nextInt(); y = in.nextInt();

System.out.println("Before Swapping**\n**x = "+x+"**\n**y = "+y); temp = x;

x = y;

y = temp;

System.out.println("After Swapping**\n**x = "+x+"**\n**y = "+y);

}

}

# How to swap 2 no without using 3rd variable Program in java

**import** java.util.Scanner;

**class** SwapNumbers

{

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

{

**int** x, y;

System.out.println("Enter x and y"); Scanner in = **new** Scanner(System.in);

x = in.nextInt(); y = in.nextInt();

System.out.println("Before Swapping**\n**x = "+x+"**\n**y = "+y);

x = x + y; y = x - y;

x = x - y;

System.out.println("After Swapping**\n**x = "+x+"**\n**y = "+y);

}

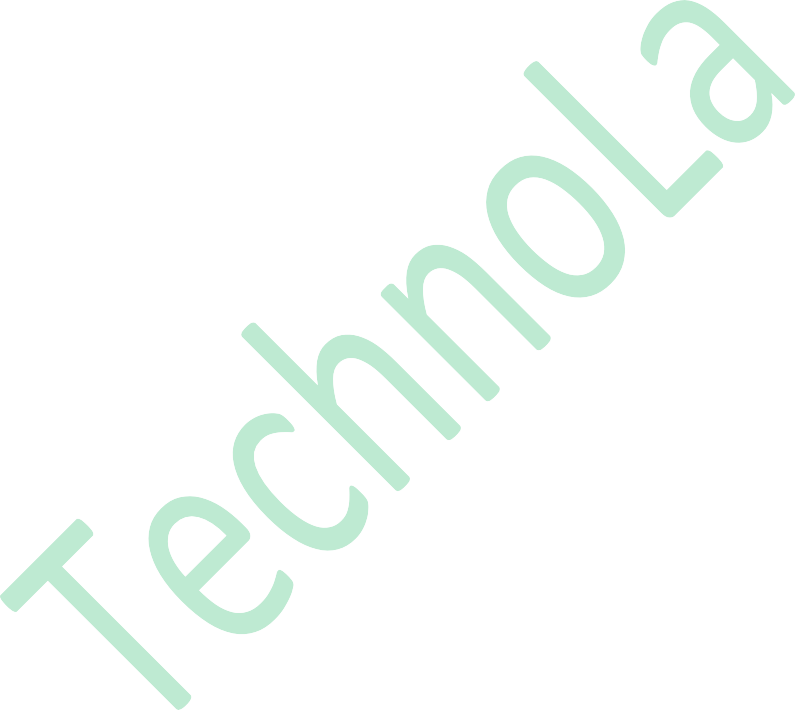
}

# How to add two number Program in java

**import** java.util.Scanner;

**class** AddNumbers

{



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

{

**int** x, y, z;

System.out.println("Enter two integers to calculate their sum "); Scanner in = **new** Scanner(System.in);

x = in.nextInt(); y = in.nextInt(); z = x + y;

System.out.println("Sum of entered integers = "+z);

}

}

//For Large Number

**import** java.util.Scanner;

**import** java.math.BigInteger;

**class** AddingLargeNumbers {

**public static void** main(String[] args) { String number1, number2;

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

System.out.println("Enter first large number"); number1 = in.nextLine();

System.out.println("Enter second large number");

number2 = in.nextLine();

BigInteger first = **new** BigInteger(number1); BigInteger second = **new** BigInteger(number2); BigInteger sum;

sum = first.add(second);

System.out.println("Result of addition = " + sum);

}

}

# Find Largest no in java Program

**import** java.util.Scanner;

**class** LargestOfThreeNumbers

{

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

{

**int** x, y, z;

System.out.println("Enter three integers "); Scanner in = **new** Scanner(System.in);

x = in.nextInt(); y = in.nextInt(); z = in.nextInt();

**if** ( x > y && x > z )

System.out.println("First number is largest.");

**else if** ( y > x && y > z ) System.out.println("Second number is largest.");

**else if** ( z > x && z > y )

System.out.println("Third number is largest.");

###### else

System.out.println("Entered numbers are not distinct.");

}

}

# If Else clause in java

**class** Condition {

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

**boolean** learning = **true**;

**if** (learning) { System.out.println("Java programmer");

##### }

#### else {

##### System.out.println("What are you doing here?");

##### }

##### }

##### }

# If Else clause in java- Program 2

*// If else in Java code*

**import** java.util.Scanner;

**class** IfElse {

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

**int** marksObtained, passingMarks;

passingMarks = 40;

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

System.out.println("Input marks scored by you");

marksObtained = input.nextInt();

**if** (marksObtained >= passingMarks) { System.out.println("You passed the exam.");

}

###### else {

System.out.println("Unfortunately you failed to pass the exam.");

}

}

}

# Nested If Else clause in java

**import** java.util.Scanner;

**class** NestedIfElse {

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

**int** marksObtained, passingMarks;

**char** grade; passingMarks = 40;

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

System.out.println("Input marks scored by you"); marksObtained = input.nextInt();

**if** (marksObtained >= passingMarks) {

**if** (marksObtained > 90) grade = 'A';

**else if** (marksObtained > 75) grade = 'B';

**else if** (marksObtained > 60) grade = 'C';

###### else

grade = 'D';

System.out.println("You passed the exam and your grade is " + grade);

}

###### else {

grade = 'F';

System.out.println("You failed and your grade is " + grade);

}

}

}

# How to check Odd and Even Number in java.

**import** java.util.Scanner;

**class** OddOrEven

{

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

{

**int** x;

System.out.println("Enter an integer to check if it is odd or even "); Scanner in = **new** Scanner(System.in);

x = in.nextInt();

**if** ( x % 2 == 0 )

System.out.println("You entered an even number.");

**else**

System.out.println("You entered an odd number.");

}

}

# Find factorial for given no Program in Java

**import** java.util.Scanner;

**class** Factorial

{

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

{

**int** n, c, fact = 1;

System.out.println("Enter an integer to calculate it's factorial"); Scanner in = **new** Scanner(System.in);

n = in.nextInt();

**if** ( n < 0 )

System.out.println("Number should be non-negative.");

###### else

{

**for** ( c = 1 ; c <= n ; c++ ) fact = fact\*c;

System.out.println("Factorial of "+n+" is = "+fact);



}

}

}

//**Calculate factorial for large No**

**import** java.util.Scanner;

**import** java.math.BigInteger;

**class** BigFactorial

{

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

{

**int** n, c;

BigInteger inc = **new** BigInteger("1"); BigInteger fact = **new** BigInteger("1");

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

System.out.println("Input an integer"); n = input.nextInt();

**for** (c = 1; c <= n; c++) { fact = fact.multiply(inc);

inc = inc.add(BigInteger.ONE);

}

System.out.println(n + "! = " + fact);

}

}

# How to compare 2 string in Java program

**import** java.util.Scanner;

**class** CompareStrings

{

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

{

String s1, s2;

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

System.out.println("Enter the first string"); s1 = in.nextLine();

System.out.println("Enter the second string"); s2 = in.nextLine();

**if** ( s1.compareTo(s2) > 0 )

System.out.println("First string is greater than second.");

**else if** ( s1.compareTo(s2) < 0 )

System.out.println("First string is smaller than second.");

###### else

System.out.println("Both strings are equal.");

}

}

# Simple For Loop Program in Java

*//Java for loop program*

**class** ForLoop {

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

**int** c;

**for** (c = 1; c <= 10; c++) { System.out.println(c);

}

}

}

# Print Star console using Loop

**class** Stars {

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

**int** row, numberOfStars;

**for** (row = 1; row <= 10; row++) {

**for**(numberOfStars = 1; numberOfStars <= row; numberOfStars++) { System.out.print("\*");

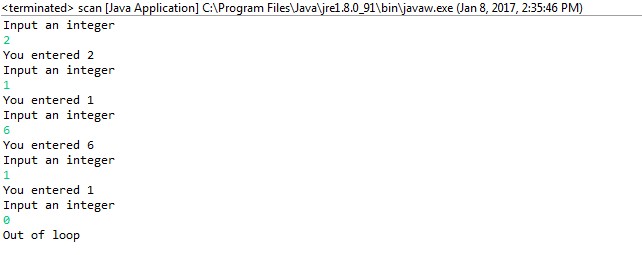
}

System.out.println(); *// Go to next line*

}

}

}



# Print Star console using Loop

**class** Stars {

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

**int** row, numberOfStars;

**for** (row = 1; row <= 10; row++) {

**for**(numberOfStars = 1; numberOfStars <= row; numberOfStars++) { System.out.print("\*");

}

System.out.println(); *// Go to next line*

}

}

}

# While loop Program in java

**import** java.util.Scanner;

**class** WhileLoop {

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

**int** n;

Scanner input = **new** Scanner(System.in); System.out.println("Input an integer");

**while** ((n = input.nextInt()) != 0) { System.out.println("You entered " + n); System.out.println("Input an integer");

}

System.out.println("Out of loop");

}

}

# Print Reverse number in java program

**import** java.util.Scanner;

**class** ReverseNumber

{

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

{

**int** n, reverse = 0;

System.out.println("Enter the number to reverse"); Scanner in = **new** Scanner(System.in);

n = in.nextInt();

**while**( n != 0 )

{

reverse = reverse \* 10; reverse = reverse + n%10; n = n/10;

}

System.out.println("Reverse of entered number is "+reverse);

}

}

# While loop using break Program in java

**import** java.util.Scanner;

**class** BreakWhileLoop {

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

**int** n;

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

**while** (**true**) {

System.out.println("Input an integer"); n = input.nextInt();

**if** (n == 0) {

###### break;

}

System.out.println("You entered " + n);

}

}

}

# While loop using break and continue Program in java

**import** java.util.Scanner;

**class** BreakContinueWhileLoop {

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

**int** n;

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

**while** (**true**) {

System.out.println("Input an integer"); n = input.nextInt();

**if** (n != 0) {

System.out.println("You entered " + n);

###### continue;

}

###### else {

###### break;

}

}

}

}

# Print all alphabet using for loop Program in java

**class** Alphabets

{

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

{

**char** ch;

**for**( ch = 'a' ; ch <= 'z' ; ch++ ) System.out.println(ch);

}

}

# Enhance loop in java Program

**class** EnhancedForLoop {

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

**int** primes[] = { 2, 3, 5, 7, 11, 13, 17, 19, 23, 29};

**for** (**int** t: primes) { System.out.println(t);

}

}

}

## //For String

**class** EnhancedForLoop {

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

String languages[] = { "C", "C++", "Java", "Python", "Ruby"};

**for** (String sample: languages) { System.out.println(sample);

}

}

}

# Print Multiplication table Program in java

**import** java.util.Scanner;

**class** MultiplicationTable

{

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

{

**int** n, c;

System.out.println("Enter an integer to print it's multiplication table");

Scanner in = **new** Scanner(System.in); n = in.nextInt();

System.out.println("Multiplication table of "+n+" is :-");

**for** ( c = 1 ; c <= 10 ; c++ ) System.out.println(n+"\*"+c+" = "+(n\*c));

}

}

//For Any Number

**import** java.util.Scanner;

**class** Tables

{

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

{

**int** a, b, c, d;

System.out.println("Enter range of numbers to print their multiplication table");

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

a = in.nextInt(); b = in.nextInt();

**for** (c = a; c <= b; c++) { System.out.println("Multiplication table of "+c);

**for** (d = 1; d <= 10; d++) { System.out.println(c+"\*"+d+" = "+(c\*d));

}

}

}

}

# Print prime no Program in java

**import** java.util.\*;

**class** PrimeNumbers

{

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

{

**int** n, status = 1, num = 3;

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

System.out.println("Enter the number of prime numbers you want"); n = in.nextInt();

**if** (n >= 1)

{

System.out.println("First "+n+" prime numbers are :-"); System.out.println(2);

}

**for** ( **int** count = 2 ; count <=n ; )

{

**for** ( **int** j = 2 ; j <= Math.sqrt(num) ; j++ )

{

**if** ( num%j == 0 )

{

status = 0;

###### break;

}

}

**if** ( status != 0 )

{

System.out.println(num); count++;

}

status = 1; num++;

}

}

}

# Check no is Armstrong or not in java Program



**import** java.util.Scanner;

**class** ArmstrongNumber

{

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

{

**int** n, sum = 0, temp, remainder, digits = 0;

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

System.out.println("Input a number to check if it is an Armstrong number");

n = in.nextInt(); temp = n;

*// Count number of digits*

**while** (temp!= 0) { digits++;

temp = temp/10;

}

temp = n;

**while** (temp != 0) { remainder = temp%10;

sum = sum + power(remainder, digits); temp = temp/10;

}

**if** (n == sum)

System.out.println(n + " is an Armstrong number.");

**else**

System.out.println(n + " is not an Armstrong number.");

}

**static int** power(**int** n, **int** r) {

**int** c, p = 1;

**for** (c = 1; c <= r; c++) p = p\*n;

**return** p;

}

}

# Print Floyd’s Triangle in java Program

**import** java.util.Scanner;

**class** FloydTriangle



{

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

{

**int** n, num = 1, c, d;

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

System.out.println("Enter the number of rows of floyd's triangle you want");

n = in.nextInt(); System.out.println("Floyd's triangle :-");

**for** ( c = 1 ; c <= n ; c++ )

{

**for** ( d = 1 ; d <= c ; d++ )

{

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

}

System.out.println();

}

}

}

# Find All substring of string in java Program

**import** java.util.Scanner;

**class** SubstringsOfAString

{

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

{

String string, sub;

**int** i, c, length;

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

System.out.println("Enter a string to print it's all substrings"); string = in.nextLine();

length = string.length();

System.out.println("Substrings of **\"**"+string+"**\"** are :-");

**for**( c = 0 ; c < length ; c++ )

{

**for**( i = 1 ; i <= length - c ; i++ )

{

sub = string.substring(c, c+i); System.out.println(sub);

}

}

}

}

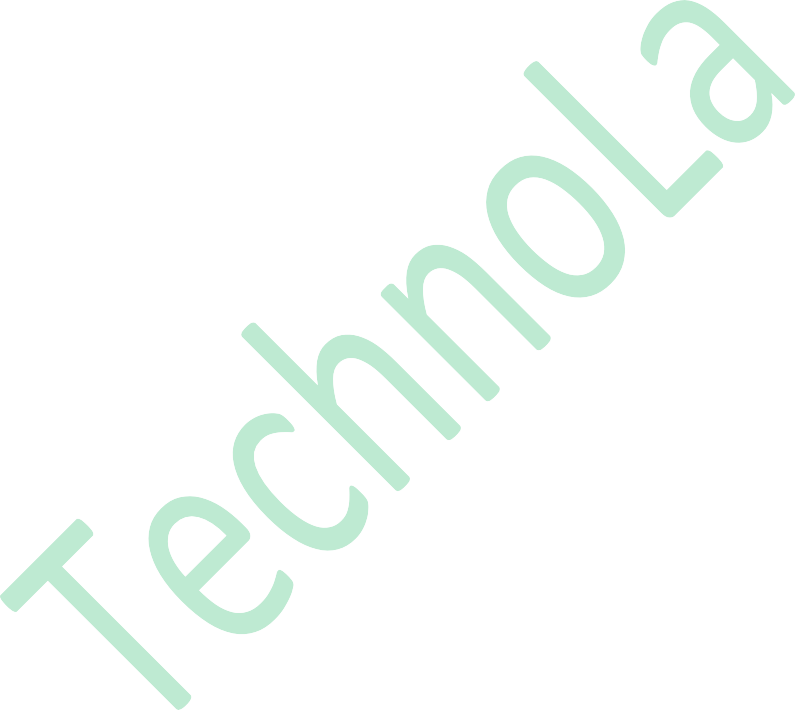
# Print reverse string in java Program

**import** java.util.\*;

**class** ReverseString

{

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



{

String original, reverse = ""; Scanner in = **new** Scanner(System.in);

System.out.println("Enter a string to reverse"); original = in.nextLine();

**int** length = original.length();

**for** ( **int** i = length - 1 ; i >= 0 ; i-- ) reverse = reverse + original.charAt(i);

System.out.println("Reverse of entered string is: "+reverse);

}

}

//Using Internal java Method

**class** InvertString

{

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

{

StringBuffer a = **new** StringBuffer("Java programming is fun"); System.out.println(a.reverse());

}

}

# Check Given No is palindrome or Not in java Program

**import** java.util.\*;

**class** Palindrome

{

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

{



String original, reverse = ""; Scanner in = **new** Scanner(System.in);

System.out.println("Enter a string to check if it is a palindrome"); original = in.nextLine();

**int** length = original.length();

**for** ( **int** i = length - 1; i >= 0; i-- ) reverse = reverse + original.charAt(i);

**if** (original.equals(reverse)) System.out.println("Entered string is a palindrome.");

###### else

System.out.println("Entered string is not a palindrome.");

}

}

//Another Method

**import** java.util.\*;

**class** Palindrome

{

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

{

String inputString;

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

System.out.println("Input a string"); inputString = in.nextLine();

**int** length = inputString.length();

**int** i, begin, end, middle;

begin = 0;

end = length - 1; middle = (begin + end)/2;

**for** (i = begin; i <= middle; i++) {

**if** (inputString.charAt(begin) == inputString.charAt(end)) { begin++;

end--;

}

###### else {

###### break;

}

}

**if** (i == middle + 1) { System.out.println("Palindrome");

}

###### else {

System.out.println("Not a palindrome");

}

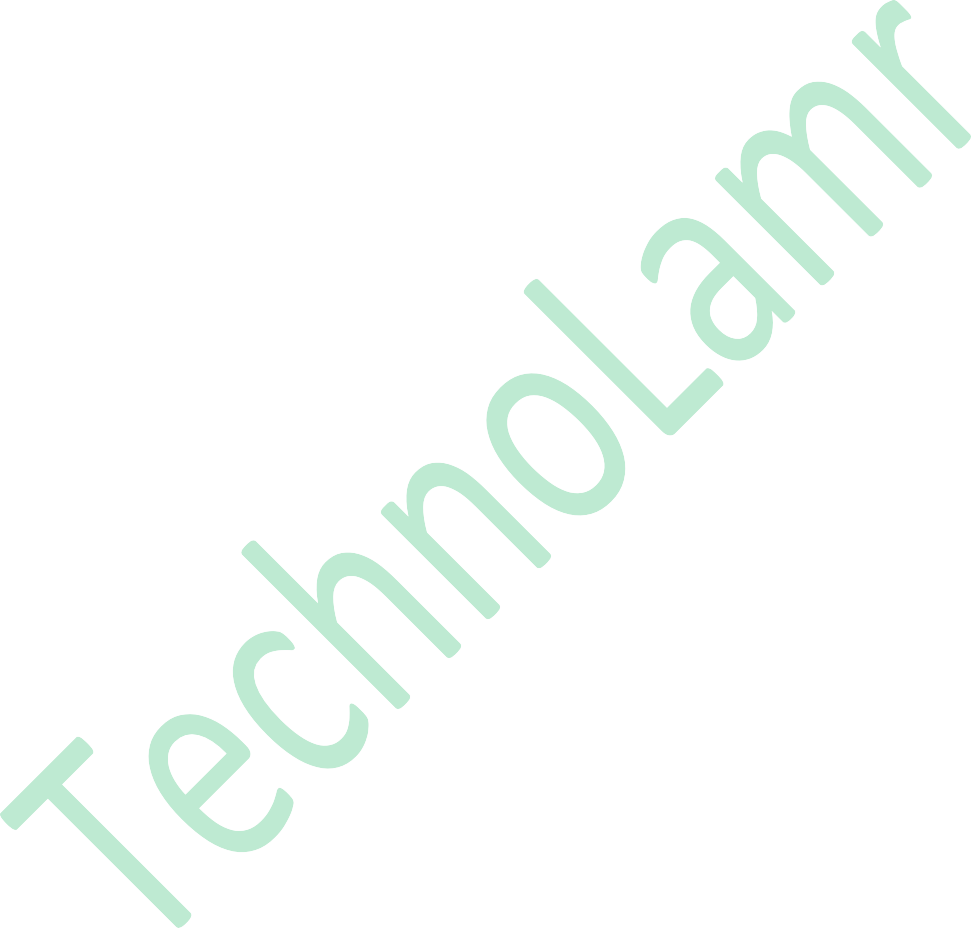
}

}

# How to add two matrix in java Program

**import** java.util.Scanner;

**class** AddTwoMatrix



{

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

{

**int** m, n, c, d;

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

System.out.println("Enter the number of rows and columns of matrix"); m = in.nextInt();

n = in.nextInt();

**int** first[][] = **new int**[m][n];

**int** second[][] = **new int**[m][n];

**int** sum[][] = **new int**[m][n];

System.out.println("Enter the elements of first matrix");

**for** ( c = 0 ; c < m ; c++ )

**for** ( d = 0 ; d < n ; d++ ) first[c][d] = in.nextInt();

System.out.println("Enter the elements of second matrix");

**for** ( c = 0 ; c < m ; c++ )

**for** ( d = 0 ; d < n ; d++ ) second[c][d] = in.nextInt();

**for** ( c = 0 ; c < m ; c++ )

**for** ( d = 0 ; d < n ; d++ )

sum[c][d] = first[c][d] + second[c][d]; *//replace '+' with '-' to subtract matrices*

System.out.println("Sum of entered matrices:-");

**for** ( c = 0 ; c < m ; c++ )

{

**for** ( d = 0 ; d < n ; d++ ) System.out.print(sum[c][d]+"**\t**");

System.out.println();

}

}

}

# How to multiply two matrix in java Program

**import** java.util.Scanner;



**class** MatrixMultiplication

{

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

{

**int** m, n, p, q, sum = 0, c, d, k;

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

System.out.println("Enter the number of rows and columns of first matrix");

m = in.nextInt(); n = in.nextInt();

**int** first[][] = **new int**[m][n];

System.out.println("Enter the elements of first matrix");

**for** ( c = 0 ; c < m ; c++ )

**for** ( d = 0 ; d < n ; d++ ) first[c][d] = in.nextInt();

System.out.println("Enter the number of rows and columns of second matrix");

p = in.nextInt(); q = in.nextInt();

**if** ( n != p )

System.out.println("Matrices with entered orders can't be multiplied with each other.");

###### else

{

**int** second[][] = **new int**[p][q];

**int** multiply[][] = **new int**[m][q];

System.out.println("Enter the elements of second matrix");

**for** ( c = 0 ; c < p ; c++ )

**for** ( d = 0 ; d < q ; d++ ) second[c][d] = in.nextInt();

**for** ( c = 0 ; c < m ; c++ )

{

**for** ( d = 0 ; d < q ; d++ )

{

**for** ( k = 0 ; k < p ; k++ )

{

sum = sum + first[c][k]\*second[k][d];

}

multiply[c][d] = sum; sum = 0;

}

}

System.out.println("Product of entered matrices:-");

**for** ( c = 0 ; c < m ; c++ )

{

**for** ( d = 0 ; d < q ; d++ ) System.out.print(multiply[c][d]+"**\t**");

System.out.print("**\n**");

}

}

}

}

# How to get transpose of matrix in java Program

**import** java.util.Scanner;

**class** TransposeAMatrix

{

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

{

**int** m, n, c, d;

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

System.out.println("Enter the number of rows and columns of matrix"); m = in.nextInt();

n = in.nextInt();

**int** matrix[][] = **new int**[m][n];

System.out.println("Enter the elements of matrix");

**for** ( c = 0 ; c < m ; c++ )

**for** ( d = 0 ; d < n ; d++ ) matrix[c][d] = in.nextInt();

**int** transpose[][] = **new int**[n][m]; **for** ( c = 0 ; c < m ; c++ )

{

**for** ( d = 0 ; d < n ; d++ ) transpose[d][c] = matrix[c][d];

}

System.out.println("Transpose of entered matrix:-");

**for** ( c = 0 ; c < n ; c++ )

{

**for** ( d = 0 ; d < m ; d++ ) System.out.print(transpose[c][d]+"**\t**");

System.out.print("**\n**");

}

}

}

# How to compare 2 string in java Program

**public class** LastIndexOfExample{ **public static void** main(String args[]){ String s1="hello";

String s2="hello"; String s3="meklo"; String s4="hemlo";

System.***out***.println(s1.compareTo(s2)); System.***out***.println(s1.compareTo(s3)); System.***out***.println(s1.compareTo(s4));

}}

# How to string width with specific char in java Program

**class** StringEndwith{

**public static void** main(String args[]){ String s1="java by TechnoLamror"; System.***out***.println(s1.endsWith("r")); //true

System.***out***.println(s1.endsWith("Lamror")); //true System.***out***.println(s1.endsWith("lamror"));//false

}

}

# How to use indesOf() in java Program

**public class** IndexOfExample{

**public static void** main(String args[]){ String s1="this is index of example";

//passing substring

**int** index1=s1.indexOf("is");//returns the index of is substring

**int** index2=s1.indexOf("index");//returns the index of index substring System.***out***.println(index1+" "+index2);//2 8

//passing substring with from index

**int** index3=s1.indexOf("is",4);//returns the index of is substring after 4th index System.***out***.println(index3);//5 i.e. the index of another is

//passing char value

**int** index4=s1.indexOf('s');//returns the index of s char value System.***out***.println(index4);//3

}}

# How to replace string with another string in java Program

**public class** ReplaceAllExample2{

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

String s1="My name is Rajendra. My name is lamror. My name is Technolamror."; String replaceString=s1.replaceAll("is","was");//replaces all occurrences of "is" to "was"

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

}}

# How to split string in java Program

**public class** SplitExample{

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

String s1="java string split method by Technolamror";

String[] words=s1.split("\\s");//splits the string based on whitespace

//using java foreach loop to print elements of string array

**for**(String w:words){ System.***out***.println(w);

}

}}

# How to remove space in string both end in java Program

**public class** StringTrimExample{

**public static void** main(String args[]){ String s1=" hello string ";

System.***out***.println(s1+"Technolamror");//without trim() System.***out***.println(s1.trim()+"Technolamror");//with trim()

}}

# How to convert all char in string lower case in java Program

**public class** StringLowerExample{

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

String s1="TECHNOLAMROR by Rajendralamror HELLO stRIng"; String s1lower=s1.toLowerCase();

System.***out***.println(s1lower);

}}

# How to create method in java Program

**class** Methods {

*// Constructor method*



Methods() {

System.out.println("Constructor method is called when an object of it's class is created");

}

*// Main method where program execution begins*

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

Methods object = **new** Methods(); object.nonStaticMethod();

}

*// Static method*

**static void** staticMethod() {

System.out.println("Static method can be called without creating object");

}

*// Non static method*

**void** nonStaticMethod() {

System.out.println("Non static method must be called by creating an object");

}

}

# Find Length, Concatenate and Replace String in Java Program

**class** StringMethods

{

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

{

**int** n;

String s = "Java programming", t = "", u = ""; System.out.println(s);

*// Find length of string*

n = s.length();

System.out.println("Number of characters = " + n);

*// Replace characters in string*

t = s.replace("Java", "C++"); System.out.println(s); System.out.println(t);

*// Concatenating string with another string*

u = s.concat(" is fun"); System.out.println(s); System.out.println(u);

}

}

# How Static block working in java Program



**class** StaticBlock {

**public static void** main(String[] args) { System.out.println("Main method is executed.");

}

**static** {

System.out.println("Static block is executed before main method.");

}

}

//Static Block Application …. We need to open Program in speciif window

**class** StaticBlock {

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

System.out.println("You are using Windows\_NT operating system.");

}

**static** {

String os = System.getenv("OS");

**if** (os.equals("Windows\_NT") != **true**) { System.exit(1);

}

}

}

# Difference between Static and Instance method working in java Program

**class** Difference {

**public static void** main(String[] args) { display(); *//calling without object*

Difference t = **new** Difference(); t.show(); *//calling using object*

}

**static void** display() { System.out.println("Programming is amazing.");

}

**void** show(){

System.out.println("Java is awesome.");

}

}

# How to create Multiple class in java Program

**class** Computer { Computer() {

System.out.println("Constructor of Computer class.");

}



**void** computer\_method() {

System.out.println("Power gone! Shut down your PC soon...");

}

**public static void** main(String[] args) { Computer my = **new** Computer();

Laptop your = **new** Laptop();

my.computer\_method(); your.laptop\_method();

}

}

**class** Laptop { Laptop() {

System.out.println("Constructor of Laptop class.");

}

**void** laptop\_method() {

System.out.println("99% Battery available.");

}

}

# How to create constructor in java Program

**class** Programming {

*//constructor method*

Programming() {

System.out.println("Constructor method called.");

}

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

Programming object = **new** Programming(); *//creating object*

}

}

# How to create constructor overloading in java Program



**class** Language { String name;

Language() {

System.out.println("Constructor method called.");

}

Language(String t) { name = t;

}

**public static void** main(String[] args) { Language cpp = **new** Language(); Language java = **new** Language("Java");

cpp.setName("C++");

java.getName(); cpp.getName();

}

**void** setName(String t) { name = t;

}

**void** getName() {

System.out.println("Language name: " + name);

}

}

# Exception Handling java Program

**class** Division {

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

**int** a, b, result;

Scanner input = **new** Scanner(System.in); System.out.println("Input two integers");

a = input.nextInt(); b = input.nextInt();

*// try block*

###### try {

result = a / b; System.out.println("Result = " + result);

}

*// catch block*

**catch** (ArithmeticException e) { System.out.println("Exception caught: Division by zero.");

}

}

}

# How to throw exception in java Program

**public class** TestThrow1{

**static void** validate(**int** age){

**if**(age<18)

**throw new** ArithmeticException("not valid");

###### else

System.***out***.println("welcome to vote on Technolamror");

}

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

*validate*(13);

System.***out***.println("rest of the code...");

}

}

# Advantage of Finally in Exception Handling java Program

**class** Allocate {

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

###### try {

**long** data[] = **new long**[1000000000];

}

**catch** (Exception e) { System.out.println(e);

}

###### finally {

System.out.println("finally block will execute always.");

}

}

}

# How to create Interface in java Program

**interface** Info {

**static final** String language = "Java";

**public void** display();

}

**class** Simple **implements** Info {

**public static void** main(String []args) { Simple obj = **new** Simple(); obj.display();

}

*// Defining method declared in interface*

**public void** display() { System.out.println(language + " is awesome");

}

}

# How to print date and time in java Program

**public class** SQLDateExample {

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

**long** millis=System.*currentTimeMillis*(); java.sql.Date date=**new** java.sql.Date(millis); System.***out***.println(date);

}

}

/// Another Way

**import** java.util.\*;

**class** GetCurrentDateAndTime

{

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

{

**int** day, month, year;

**int** second, minute, hour;

GregorianCalendar date = **new** GregorianCalendar();

day = date.get(Calendar.DAY\_OF\_MONTH); month = date.get(Calendar.MONTH);

year = date.get(Calendar.YEAR);

second = date.get(Calendar.SECOND); minute = date.get(Calendar.MINUTE); hour = date.get(Calendar.HOUR);

System.out.println("Current date is "+day+"/"+(month+1)+"/"+year); System.out.println("Current time is "+hour+" : "+minute+" : "+second);

}

}

# How to SQL Date in java Program

**import** java.sql.Date;

**public class** StringToSQLDateExample {

**public static void** main(String[] args) { String str="2015-03-31";

Date date=Date.valueOf(str);//converting string into sql date System.out.println(date);

}

}

# How to Date format in java Program

**import** java.text.ParseException; **import** java.text.SimpleDateFormat; **import** java.util.Date;

**import** java.util.Locale;

**public class** SimpleDateFormatExample2 {

**public static void** main(String[] args) { Date date = **new** Date();

System.***out***.println("Date formate chnage by Technolamror "); SimpleDateFormat formatter = **new** SimpleDateFormat("MM/dd/yyyy"); String strDate = formatter.format(date); System.***out***.println("Date Format with MM/dd/yyyy : "+strDate);

formatter = **new** SimpleDateFormat("dd-M-yyyy hh:mm:ss"); strDate = formatter.format(date);

System.***out***.println("Date Format with dd-M-yyyy hh:mm:ss : "+strDate);

formatter = **new** SimpleDateFormat("dd MMMM yyyy"); strDate = formatter.format(date);

System.***out***.println("Date Format with dd MMMM yyyy : "+strDate);

formatter = **new** SimpleDateFormat("dd MMMM yyyy zzzz"); strDate = formatter.format(date);

System.***out***.println("Date Format with dd MMMM yyyy zzzz : "+strDate);

formatter = **new** SimpleDateFormat("E, dd MMM yyyy HH:mm:ss z"); strDate = formatter.format(date);

System.***out***.println("Date Format with E, dd MMM yyyy HH:mm:ss z : "+strDate);

}

}

# How to Generate random number in java Program

**import** java.util.\*;

**class** RandomNumbers {

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

**int** c;

Random t = **new** Random();

*// random integers in [0, 100]*

**for** (c = 1; c <= 10; c++) { System.out.println(t.nextInt(100));

}

}

}

# How perform garbage collection in java Program

**import** java.util.\*;

**class** GarbageCollection

{

**public static void** main(String s[]) **throws** Exception

{

Runtime rs = Runtime.getRuntime();

System.out.println("Free memory in JVM before Garbage Collection = "+rs.freeMemory());

rs.gc();

System.out.println("Free memory in JVM after Garbage Collection = "+rs.freeMemory());

}

}

# How to get own IP Address in java Program

**import** java.net.InetAddress;

**class** IPAddress

{

**public static void** main(String args[]) **throws** Exception

{

System.out.println(InetAddress.getLocalHost());

}

}

# How to open notepad in java Program

**import** java.util.\*;

**import** java.io.\*;

**class** Notepad {

**public static void** main(String[] args) { Runtime rs = Runtime.getRuntime();

**try** { rs.exec("notepad");

}

**catch** (IOException e) { System.out.println(e);

}

}

}

# Leaner search Program in java

**import** java.util.Scanner;

**class** LinearSearch

{

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

{

**int** c, n, search, array[];

Scanner in = **new** Scanner(System.in); System.out.println("Enter number of elements"); n = in.nextInt();

array = **new int**[n];

System.out.println("Enter " + n + " integers");

**for** (c = 0; c < n; c++) array[c] = in.nextInt();

System.out.println("Enter value to find");

search = in.nextInt();

**for** (c = 0; c < n; c++)

{

**if** (array[c] == search) */\* Searching element is present \*/*

{

".");

}

System.out.println(search + " is present at location " + (c + 1) +

###### break;

}

**if** (c == n) */\* Searching element is absent \*/*

System.out.println(search + " is not present in array.");

}

}

# Binary search Program in java

**import** java.util.Scanner;

**class** BinarySearch



{

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

{

**int** c, first, last, middle, n, search, array[];

Scanner in = **new** Scanner(System.in); System.out.println("Enter number of elements"); n = in.nextInt();

array = **new int**[n];

System.out.println("Enter " + n + " integers");

**for** (c = 0; c < n; c++) array[c] = in.nextInt();

System.out.println("Enter value to find"); search = in.nextInt();

first = 0; last = n - 1;

middle = (first + last)/2;

**while**( first <= last )

{

**if** ( array[middle] < search ) first = middle + 1;

**else if** ( array[middle] == search )

{

".");

}

System.out.println(search + " found at location " + (middle + 1) +

###### break;

###### else

last = middle - 1;

middle = (first + last)/2;

}

**if** ( first > last )

System.out.println(search + " is not present in the list.**\n**");

}

}

# Bubble sort Program in java

**import** java.util.Scanner;

**class** BubbleSort {

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

**int** n, c, d, swap;



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

System.out.println("Input number of integers to sort"); n = in.nextInt();

**int** array[] = **new int**[n];

System.out.println("Enter " + n + " integers");

**for** (c = 0; c < n; c++) array[c] = in.nextInt();

**for** (c = 0; c < ( n - 1 ); c++) {

**for** (d = 0; d < n - c - 1; d++) {

**if** (array[d] > array[d+1]) */\* For descending order use < \*/*

{

swap = array[d]; array[d] = array[d+1]; array[d+1] = swap;

}

}

}

System.out.println("Sorted list of numbers");

**for** (c = 0; c < n; c++) System.out.println(array[c]);

}

}

# How to connect Database using java Program

**import** java.sql.\*;

**class** OracleCon{

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

**try**{

//step1 load the driver class Class.*forName*("oracle.jdbc.driver.OracleDriver");

//step2 create the connection object

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:xe","system","oracl e");

//step3 create the statement object Statement stmt=con.createStatement();

//step4 execute query

ResultSet rs=stmt.executeQuery("select \* from emp");

**while**(rs.next())

System.***out***.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3));

//step5 close the connection object con.close();

}**catch**(Exception e){ System.***out***.println(e);}

}

}

# How to insert data in table using JDBC in java Program

**import** java.sql.\*;

**class** InsertPrepared{

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

**try**{ Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:xe","system","oracl e");

PreparedStatement stmt=con.prepareStatement("insert into Emp values(?,?)"); stmt.setInt(1,101);//1 specifies the first parameter in the query stmt.setString(2,"Ratan");

**int** i=stmt.executeUpdate(); System.***out***.println(i+" records inserted"); con.close();

}**catch**(Exception e){ System.***out***.println(e);}

}

}

# How to insert image using JDBC in java Program

**import** java.sql.\*;

**import** java.io.\*;

**public class** InsertImage {

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

**try**{ Class.*forName*("oracle.jdbc.driver.OracleDriver"); Connection con=DriverManager.*getConnection*(

"jdbc:oracle:thin:@localhost:1521:xe","system","oracle");

PreparedStatement ps=con.prepareStatement("insert into imgtable values(?,?)");

ps.setString(1,"Technolamror");

FileInputStream fin=**new** FileInputStream("d:\\g.jpg"); ps.setBinaryStream(2,fin,fin.available());

**int** i=ps.executeUpdate(); System.***out***.println(i+" records affected"); con.close();

}**catch** (Exception e) {e.printStackTrace();}

}

}

# How to execute Procedure in JDBC in java Program

**import** java.sql.\*;

**public class** Proc {

**public static void** main(String[] args) **throws** Exception{ Class.*forName*("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.*getConnection*("jdbc:oracle:thin:@localhost:1521:xe","system","oracl e");

CallableStatement stmt=con.prepareCall("{call insertR(?,?)}"); stmt.setInt(1,1011);

stmt.setString(2,"Amit"); stmt.execute(); System.***out***.println("success");

}

}

# How to check Regular expression in java Program

**import** java.util.regex.\*;

**public class** RegexExample1{

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

//1st way

Pattern p = Pattern.*compile*(".s");//. represents single character Matcher m = p.matcher("as");

**boolean** b = m.matches();

//2nd way

**boolean** b2=Pattern.*compile*(".s").matcher("as").matches();

//3rd way

**boolean** b3 = Pattern.*matches*(".s", "as"); System.***out***.println(b+" "+b2+" "+b3);

}}

# How to create Multithreading program in java

**class** Multi **extends** Thread{

**public void** run(){ System.***out***.println("thread is running...");

}

**public static void** main(String args[]){ Multi t1=**new** Multi();

t1.start();

}

}

# How to join thread in java program

**class** TestJoinMethod1 **extends** Thread{

**public void** run(){ **for**(**int** i=1;i<=5;i++){ **try**{

Thread.*sleep*(500);

}**catch**(Exception e){System.***out***.println(e);} System.***out***.println(i);

}

}

**public static void** main(String args[]){ TestJoinMethod1 t1=**new** TestJoinMethod1(); TestJoinMethod1 t2=**new** TestJoinMethod1(); TestJoinMethod1 t3=**new** TestJoinMethod1(); t1.start();

**try**{ t1.join();

}**catch**(Exception e){System.***out***.println(e);}

t2.start();

t3.start();

}

}

# How to write data in text file using java program

**import** java.io.FileOutputStream;

**public class** FileOutputStreamExample {

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

**try**{

FileOutputStream fout=**new** FileOutputStream("D:\\testout.txt"); fout.write(65);

fout.close();

System.***out***.println("success.. by Technolamror.");

}**catch**(Exception e){System.***out***.println(e);}

}

}

# How to read data from text file using java program

**import** java.io.FileInputStream;

**public class** DataStreamExample {

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

**try**{

FileInputStream fin=**new** FileInputStream("D:\\Technolamror.txt");

**int** i=fin.read(); System.***out***.print((**char**)i);

fin.close();

}**catch**(Exception e){System.***out***.println(e);}

}

}

1. **How to get URL of site using java Programs**

**import** java.io.\*; **import** java.net.\*; **public class** URLDemo{

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

**try**{

URL url=**new** URL("<http://www.technolamror.com/java>");

System.***out***.println("Protocol: "+url.getProtocol()); System.***out***.println("Host Name: "+url.getHost()); System.***out***.println("Port Number: "+url.getPort()); System.***out***.println("File Name: "+url.getFile());

}**catch**(Exception e){System.***out***.println(e);}

}

}

1. **How to get IP address from site URL using java program**

**import** java.io.\*; **import** java.net.\*; **public class** InetDemo{

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

**try**{

InetAddress ip=InetAddress.*getByName*("[www.Technolamror.com](http://www.Technolamror.com/)");

System.***out***.println("Host Name: "+ip.getHostName()); System.***out***.println("IP Address: "+ip.getHostAddress());

}**catch**(Exception e){System.***out***.println(e);}

}

}

1. **How to create AWT program in java**

**import** java.awt.\*;

**class** First **extends** Frame{ First(){

Button b=**new** Button("click me"); b.setBounds(30,100,80,30);// setting button position

add(b);//adding button into frame setSize(300,300);//frame size 300 width and 300 height setLayout(**null**);//no layout manager

setVisible(**true**);//now frame will be visible, by default not visible

}

**public static void** main(String args[]){ First f=**new** First();

}}

1. **How to add lable in AWT program in java**

**import** java.awt.\*;

**class** LabelExample{

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

Frame f= **new** Frame("Label Example by Technolamror"); Label l1,l2;

l1=**new** Label("First Label."); l1.setBounds(50,100, 100,30); l2=**new** Label("Second Label."); l2.setBounds(50,150, 100,30); f.add(l1); f.add(l2); f.setSize(400,400); f.setLayout(**null**); f.setVisible(**true**);

}

}

1. **How to add text area program in java**

**import** java.awt.\*;

**public class** TextAreaExample

{

TextAreaExample(){

Frame f= **new** Frame();

TextArea area=**new** TextArea("Welcome to Technolamror"); area.setBounds(10,30, 300,300);

f.add(area); f.setSize(400,400); f.setLayout(**null**); f.setVisible(**true**);

}

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

{

**new** TextAreaExample();

}

}

1. **How to dropdown in AWT program in java**

**import** java.awt.\*;

**public class** ChoiceExample

{

ChoiceExample(){

Frame f= **new** Frame(); Choice c=**new** Choice(); c.setBounds(100,100, 75,75);

c.add("Item 1 by Rajendra"); c.add("Item 2 by Lamror"); c.add("Item 3 by Technolamror"); c.add("Item 4");

c.add("Item 5"); f.add(c); f.setSize(400,400); f.setLayout(**null**); f.setVisible(**true**);

}

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

{

**new** ChoiceExample();

}

}

1. **How to create Swing program in java**

**import** javax.swing.\*;

**public class** FirstSwingExample {

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

JFrame f=**new** JFrame();//creating instance of JFrame

JButton b=**new** JButton("click");//creating instance of JButton b.setBounds(130,100,100, 40);//x axis, y axis, width, height f.add(b);//adding button in JFrame

f.setSize(400,500);//400 width and 500 height f.setLayout(**null**);//using no layout managers f.setVisible(**true**);//making the frame visible

}

}

1. **How to add checkbox in Swing program in java**

**import** javax.swing.\*;

**public class** CheckBoxExample

{

CheckBoxExample(){

JFrame f= **new** JFrame("CheckBox Example by Technolamror"); JCheckBox checkBox1 = **new** JCheckBox("C++"); checkBox1.setBounds(100,100, 50,50);

JCheckBox checkBox2 = **new** JCheckBox("Java", **true**); checkBox2.setBounds(100,150, 50,50); f.add(checkBox1);

f.add(checkBox2); f.setSize(400,400); f.setLayout(**null**); f.setVisible(**true**);

}

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

{

**new** CheckBoxExample();

}}

1. **How to convert string to integer in java program**

**public class** StringToIntExample{ **public static void** main(String args[]){ String s="200";

**int** i=Integer.*parseInt*(s);

System.***out***.println(s+100);//200100 because + is string concatenation operator System.***out***.println(i+100);//300 because + is binary plus operator

}}

1. **How to convert integer to string in java program**

**public class** IntToStringExample1{ **public static void** main(String args[]){ **int** i=200;

String s=String.*valueOf*(i);

System.***out***.println(i+100);//300 because + is binary plus operator System.***out***.println(s+100);//200100 because + is string concatenation operator

}}

1. **How to convert string to long in java**

**public class** StringToLongExample{ **public static void** main(String args[]){ String s="9990449935";

**long** l=Long.*parseLong*(s); System.***out***.println(l);

}}

1. **How to convert string to float in java**

**public class** StringToFloatExample{ **public static void** main(String args[]){ String s="23.6";

**float** f=Float.*parseFloat*("23.6"); System.***out***.println(f);

}}

1. **How to convert string to double in java program**

**public class** StringToDoubleExample{

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

String s="23.6";

**double** d=Double.*parseDouble*("23.6"); System.***out***.println(d);

}}

1. **How to convert string to date in java program**

**import** java.text.SimpleDateFormat;

**import** java.util.Date;

**public class** StringToDateExample1 {

**public static void** main(String[] args)**throws** Exception { String sDate1="31/12/1998";

String sDate2 = "31-Dec-1998"; String sDate3 = "12 31, 1998"; String sDate4 = "Thu, Dec 31 1998";

String sDate5 = "Thu, Dec 31 1998 23:37:50"; String sDate6 = "31-Dec-1998 23:37:50";

SimpleDateFormat formatter1=**new** SimpleDateFormat("dd/MM/yyyy"); SimpleDateFormat formatter2=**new** SimpleDateFormat("dd-MMM-yyyy"); SimpleDateFormat formatter3=**new** SimpleDateFormat("MM dd, yyyy"); SimpleDateFormat formatter4=**new** SimpleDateFormat("E, MMM dd yyyy"); SimpleDateFormat formatter5=**new** SimpleDateFormat("E, MMM dd yyyy HH:mm:ss"); SimpleDateFormat formatter6=**new** SimpleDateFormat("dd-MMM-yyyy HH:mm:ss"); Date date1=formatter1.parse(sDate1);

Date date2=formatter2.parse(sDate2); Date date3=formatter3.parse(sDate3); Date date4=formatter4.parse(sDate4); Date date5=formatter5.parse(sDate5); Date date6=formatter6.parse(sDate6);

System.***out***.println("String to Date converter by technolamror"); System.***out***.println(sDate1+"\t"+date1); System.***out***.println(sDate2+"\t"+date2); System.***out***.println(sDate3+"\t"+date3); System.***out***.println(sDate4+"\t"+date4); System.***out***.println(sDate5+"\t"+date5); System.***out***.println(sDate6+"\t"+date6);

}

}

1. **Create ArrayList program in java**

**import** java.util.\*;

**class** Arrylist\_Technolamror{

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

ArrayList<String> list=**new** ArrayList<String>();//Creating arraylist list.add("Rajendra");//Adding object in arraylist list.add("Mahendra");

list.add("Raja"); list.add("Technolamror");

//Traversing list through Iterator Iterator itr=list.iterator(); **while**(itr.hasNext()){ System.***out***.println(itr.next());

}

}

}

1. **How to create LinkedList program in java**

**import** java.util.\*;

**public class** LinkedList\_technolamror{

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

Linkedal<String> al=**new** Linkedal<String>();

al.add("Rajendra");//Adding object in LinkedList al.add("Mahendra");

al.add("Raja"); al.add("Technolamror");

Iterator<String> itr=al.iterator(); **while**(itr.hasNext()){ System.***out***.println(itr.next());

}

}

}

1. **How to ArrayList using list interface program in java**

**import** java.util.\*;

**class** Book {

**int** id;

String name,author,publisher;

**int** quantity;

**public** Book(**int** id, String name, String author, String publisher, **int** quantity) {

**this**.id = id; **this**.name = name; **this**.author = author;

**this**.publisher = publisher;

**this**.quantity = quantity;

}

}

**public class** ListIteratorExample {

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

//Creating list of Books

List<Book> list=**new** ArrayList<Book>();

//Creating Books

Book b1=**new** Book(101,"Let us C","Yashwant Kanetkar","BPB",8);

Book b2=**new** Book(102,"Java Program Questation","Rajendra","Technolamror",4); Book b3=**new** Book(103,"Operating System","Galvin","Wiley",6);

//Adding Books to list

list.add(b1);

list.add(b2);

list.add(b3);

System.***out***.println("Original content of list is: ");

//Traversing list

**for**(Book b:list){

System.***out***.println(b.id+" "+b.name+" "+b.author+" "+b.publisher+" "+b.quantity);

}

ListIterator<Book> itr=list.listIterator(); System.***out***.println("Modified content of list in backward is: "); **while**(itr.hasNext()){

Book st=(Book)itr.next();

System.***out***.println(st.quantity+" "+st.publisher+" "+st.author+" "+st.name+" "+st.id);

}

}

}

1. **How to create Hashset program in java**

**import** java.util.\*;

**class** TestCollection9{

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

//Creating HashSet and adding elements HashSet<String> set=**new** HashSet<String>(); set.add("Rajendra");

set.add("Raja");

set.add("Ravi"); set.add("Technolamror");

//Traversing elements Iterator<String> itr=set.iterator(); **while**(itr.hasNext()){ System.***out***.println(itr.next());

}

}

}

1. **How to create LinkedHashSet program in java**

**import** java.util.\*;

**class** LinkedHashSet\_Technolamror{

**public static void** main(String args[]){ LinkedHashSet<String> al=**new** LinkedHashSet<String>();

al.add("Rajendra");

al.add("Raja");

al.add("Ravi"); al.add("Technolamror");

Iterator<String> itr=al.iterator();

**while**(itr.hasNext()){

***out*** itr

}

}

}

1. **How to create TreeSet program in java**

**import** java.util.\*;

**class** TreeSet\_Technolamror{

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

//Creating and adding elements TreeSet<String> al=**new** TreeSet<String>(); al.add("Rajendra");

al.add("Raja");

al.add("Ravi"); al.add("Technolamror"); ments Iterator<String> itr=al.iterator(); **while**(itr.hasNext()){ System.***out***.println(itr.next());

}

}

}

1. **How to create PriorityQueue program in java**

**import** java.util.\*;

**class** PriorityQueue\_Technolamror{

**public static void** main(String args[]){ PriorityQueue<String> queue=**new** PriorityQueue<String>(); queue.add("Rajendra");

queue.add("Mahendra"); queue.add("Raja"); queue.add("Technolamror"); queue.add("Rahul");

System.***out***.println("head:"+queue.element()); System.***out***.println("head:"+queue.peek()); System.***out***.println("iterating the queue elements:"); Iterator itr=queue.iterator();

**while**(itr.hasNext()){ System.***out***.println(itr.next());

}

queue.remove(); queue.poll();

System.***out***.println("after removing two elements:"); Iterator<String> itr2=queue.iterator(); **while**(itr2.hasNext()){ System.***out***.println(itr2.next());

}

}

}

1. **How to create HashMap using map interface program in java**

**import** java.util.\*;

**class** MapInterfaceExample{

**public static void** main(String args[]){ Map<Integer,String> map=**new** HashMap<Integer,String>(); map.put(100,"Rajendra");

map.put(101,"Lamror"); map.put(102,"Technolamror"); **for**(Map.Entry m:map.entrySet()){

System.***out***.println(m.getKey()+" "+m.getValue());

}

}

}

1. **How to create LinkedHashMap program in java**

**import** java.util.\*;

**class** LinkedHashMap\_Technolmaror{

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

LinkedHashMap<Integer,String> hm=**new** LinkedHashMap<Integer,String>(); hm.put(100,"Rajendra");

hm.put(101,"Vijay");

hm.put(102,"Technolamror");

**for**(Map.Entry m:hm.entrySet()){ System.***out***.println(m.getKey()+" "+m.getValue());

}

}

}

1. **How to create TreeMap program in java**

**import** java.util.\*;

**class** TreeMap\_Technolamror{

**public static void** main(String args[]){ TreeMap<Integer,String> hm=**new** TreeMap<Integer,String>(); hm.put(100,"Amit");

hm.put(102,"Ravi");

hm.put(101,"Vijay"); hm.put(103,"Technolamror"); **for**(Map.Entry m:hm.entrySet()){

System.***out***.println(m.getKey()+" "+m.getValue());

}

}

}

1. **How to create Hashtable program in java**

**import** java.util.\*;

**class** Hashtable\_Technolamror{

**public static void** main(String args[]){ Hashtable<Integer,String> hm=**new** Hashtable<Integer,String>();

hm.put(100,"Rajendra");

hm.put(102,"Praveen");

hm.put(101,"Bipin");

hm.put(103,"Pankaj");

**for**(Map.Entry m:hm.entrySet()){ System.***out***.println(m.getKey()+" "+m.getValue());

}

}

}

1. **How to create Array program in java**

**class** Array\_Technolamror{

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

**int** a[]=**new int**[5];//declaration and instantiation a[0]=10;//initialization

a[1]=20;

a[2]=70;

a[3]=40;

a[4]=50;

//printing array

**for**(**int** i=0;i<a.length;i++)//length is the property of array System.***out***.println(a[i]);

}}

1. **How to create Multidimensional array program in java**

**class** Multi\_Array{

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

//declaring and initializing 2D array

**int** arr[][]={{1,2,3},{2,4,5},{4,4,5}};

//printing 2D array **for**(**int** i=0;i<3;i++){ **for**(**int** j=0;j<3;j++){

System.***out***.print(arr[i][j]+" ");

}

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

}

}}

1. **How to create Find Factorial No using Recursion Program in java**

**public class** Recursion\_Technolamror {

**static int** factorial(**int** n){

**if** (n == 1)

**return** 1;

###### else

**return**(n \* *factorial*(n-1));

}

**public static void** main(String[] args) { System.***out***.println("Factorial of 5 is: "+*factorial*(5));

}

}

1. **How to create Method Overriding program in java**

**class** Bank{

**int** getRateOfInterest(){**return** 0;}

}

**class** SBI **extends** Bank{

**int** getRateOfInterest(){**return** 8;}

}

**class** ICICI **extends** Bank{

**int** getRateOfInterest(){**return** 7;}

}

**class** AXIS **extends** Bank{

**int** getRateOfInterest(){**return** 9;}

}

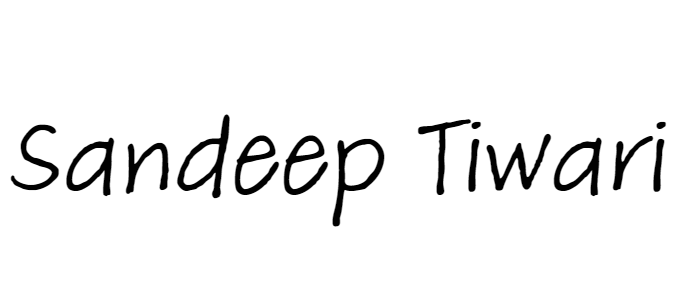
**class** Test2{

**public static void** main(String args[]){ SBI s=**new** SBI();

ICICI i=**new** ICICI(); AXIS a=**new** AXIS();

System.***out***.println("SBI Rate of Interest: "+s.getRateOfInterest()); System.***out***.println("ICICI Rate of Interest: "+i.getRateOfInterest()); System.***out***.println("AXIS Rate of Interest: "+a.getRateOfInterest());

} }



**Thank You Friends For Reading**

**Sandeep** Tiwari

