

Java

JAVA Programs

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100 Java Programs

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1. Simple Java Program

```
class HelloWorld
{
    public static void main(String args[])
    {
        System.out.println("Hello World by Technolamrur");
    }
}
```

2. 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);
        }
    }
}
```

3. Command Line Argument in java

```
class Arguments {
    public static void main(String[] args) {
        for (String t: args) {
            System.out.println(t);
        }
    }
}
```

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4.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);
    }
}
```

5.How to convert Fahrenheit to Celsius Program in [java](#)

```
import java.util.*;

class FahrenheitToCelsius {
    public static void main(String[] args) {
        float temperature;
        Scanner in = new Scanner(System.in);

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

        temperature = ((temperature - 32)*5)/9;

        System.out.println("Temperatue in Celsius = " + temperature);
    }
}
```

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6. 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\nx = "+x+"\ny = "+y);

        temp = x;
        x = y;
        y = temp;

        System.out.println("After Swapping\nx = "+x+"\ny = "+y);
    }
}
```

7. 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\nx = "+x+"\ny = "+y);
```

```

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

    System.out.println("After Swapping\nx = "+x+"\ny = "+y);
}
}

```

8.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);
    }
}

```



```
}
```

9. 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.");
    }
}
```

10. 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?");
        }
    }
}
```

11. 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.");
        }
    }
}
```

12. 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);
    }
}
}

```

13. 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.");
    }
}

```

14. 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);
    }
}

```

15. How to complete 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.");
    }
}

```

16. 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);
        }
    }
}

```

17. 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
        }
    }
}

```

<terminated> scan [Java Application] C:\Program Files\Java\jre1.8.0_91\bin\javaw.exe (Jan 8, 2017, 2:35:46 PM)

Input an integer

2

You entered 2

Input an integer

1

You entered 1

Input an integer

6

You entered 6

Input an integer

1

You entered 1

Input an integer

0

Out of loop

18. 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
        }
    }
}
```

19. 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");
    }
}
```

```
}
```

20. 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);
    }
}
```

21. [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);
        }
    }
}
```

22. 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;
            }
        }
    }
}
```

23. 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);
    }
}
```

24. 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);
        }
    }
}
```

25. 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));
            }
        }
    }
}

```

26. 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++;
    }
}

```

27. 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;
    }
}

```

```
}  
}
```

28. 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();  
        }  
    }  
}
```

29. 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);
            }
        }
    }
}

```

30. 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());
    }
}

```

31. 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");
        }
    }
}

```

32. 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();
        }
    }
}

```

```
}  
}  
}
```

33. 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");
}
}
}
}

```

34. 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");
        }
    }
}

```

35. 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));
    }
}

```

36. How to string width with specific char in java Program

```

class StringEndwith{
    public static void main(String args[]){
        String s1="java by TechnoLamrro";
        System.out.println(s1.endsWith("r")); //true
        System.out.println(s1.endsWith("Lamrro")); //true
        System.out.println(s1.endsWith("lamrro")); //false
    }
}

```

37. How to use indexOf() 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
}}
```

38. 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);
}}
```

39. 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);
}
}}
```

40. 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()
}}
```

41. 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);
}}
```

42. 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");
    }
}
```

43. 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);
}
}

```

44. 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);
        }
    }
}

```

45. 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.");
    }
}

```

46. 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.");
    }
}

```

47. 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  
}  
}
```

48. 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);  
    }  
}
```

49. 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.");
}
}

```

50. 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 Technolamrro");
    }
    public static void main(String args[]){
        validate(13);
        System.out.println("rest of the code...");
    }
}

```

51. 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.");
        }
    }
}

```

52. 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");
    }
}
```

53. 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);
    }
}

```

54. 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);
    }
}

```

55. 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 format change by Technolamrur ");
        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);
    }
}

```

56. 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));
        }
    }
}
```

57. 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());
    }
}
```

58. 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());
    }
}
```

59. 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);
        }
    }
}
```

60. 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.");
    }
}

```

61. 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");
    }
}

```

62. 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]);
    }
}
```

63. 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","orac1
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);}

}
}

```

64. 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","orac1
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);}

}
}

```

65. 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();}
}
}

```

66. 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","orac
le");
CallableStatement stmt=con.prepareCall("{call insertR(?,?)}");
stmt.setInt(1,1011);
stmt.setString(2,"Amit");
stmt.execute();
System.out.println("success");
}
}

```

67. 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);
}}

```

68. 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();
}
}

```

69. 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();
}
}

```

70. 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 Technolamrur.");
}catch(Exception e){System.out.println(e);}
}
}

```

71. 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:\\Technolamrur.txt");
        int i=fin.read();
        System.out.print((char)i);

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

```

72. How to get URL of site using java Programs

```

import java.io.*;
import java.net.*;
public class URLEDemo{
public static void main(String[] args){
try{
URL url=new URL("http://www.technolamrur.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);}
}
}

```

73. 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.Technolamrur.com");

System.out.println("Host Name: "+ip.getHostName());
System.out.println("IP Address: "+ip.getHostAddress());
}catch(Exception e){System.out.println(e);}
}
}

```

74. 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();
}}

```

75. 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 Technolamrur");
    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);
}
}

```

76. 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 Technolamrur");
        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();
    }
}

```

77. 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();
    }
}

```

78. 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
    }
}

```

79. 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();  
}}
```

80. 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  
}}
```

81. 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  
}}
```

82. 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);  
}}
```

83. 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);  
}}
```

84. 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);
}}
```

85. 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 technolamrur");
    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);
}
}
```

86. Create ArrayList program in java

```
import java.util.*;
class Arrylist_Technolamrur{
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("Technolamrur");
}
```

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

87. How to create LinkedList program in java

```
import java.util.*;
public class LinkedList technolamrro{
    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("Technolamrro");

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

88. 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","Technolamrro",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);
}
}
}

```

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

```

90. How to create LinkedHashSet program in java

```

import java.util.*;
class LinkedHashSet_Technolamrur{
    public static void main(String args[]){
        LinkedHashSet<String> al=new LinkedHashSet<String>();

        al.add("Rajendra");
        al.add("Raja");
        al.add("Ravi");
        al.add("Technolamrur");

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

```



```
}  
}  
}
```

91. 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");  
        Iterator<String> itr=al.iterator();  
        while(itr.hasNext()){  
            System.out.println(itr.next());  
        }  
    }  
}
```

92. 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());  
        }  
    }  
}
```

93. 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());
        }
    }
}
```

94. 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());
        }
    }
}
```

95. 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());
        }
    }
}
```

96. 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());
        }
    }
}
```

97. 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]);

    }
}
```

98. 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();
        }
    }
}
```

```
}}
```

99. How to create Find Factorial No using Recursion Program in [java](#)

```
public class Recursion Technolamrro {  
    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));  
    }  
}
```

100. 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());  
    } }  
}
```
