

100 Java Programs

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1. Simple Java Program

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

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. Howto getUsinginputusingScannerProgrami n 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. HowtoconvertFahrenheit to CelsiusProgramin java

```

import java.util.*;

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

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

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

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

```

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}

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6. Howto swap2no using3rdvariable injava

```
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. Howto swap2nowithoutusing3rdvariablePrograminj ava

```
import java.util.Scanner;

class SwapNumbers
{
    public static void main(String args[])
    {
        int x, y;
```

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```
System.out.println("Enterxandy"); Scanne
rin=newScanner(System.in);

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

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

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

    System.out.println("AfterSwapping\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;
    }
}
```

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```
sum=first.add(second);  
System.out.println("Resultofaddition="+sum);  
}
```

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 }

9. FindLargest 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?");
        }
    }
}

```

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}

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11. If Else clause in java- Program2

```
//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; passingM

        arks=40;

        Scanner input=new Scanner (System.in); System.out.println ("In
put marks scored by you"); marksObtained=input.nextInt ();

        if (marksObtained>=passingMarks) {
```

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

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```

        elseif(marksObtained>75) grade='B
        ';
        elseif(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;

```

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```
System.out.println("Enter an integer to calculate its factorial"); Scanner in = new Scanner(System.in);
int n = in.nextInt();
```

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```

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 largeNo
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.m
            ultiply(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);

```

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```
System.out.println("Enter the first string"); s1=i  
n.nextLine();
```

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```

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

if(s1.compareTo(s2)>0)
    System.out.println("First string is greater than second.");
elseif(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.print
            ln(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.p
                rint("*");
            }
            System.out.println(); // Go to next line
        }
    }
}

```

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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.print
        ln ("Input an integer");

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

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

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}

20. Print Reversenumberin [javaprogram](#)

```
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+=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);
        }
    }
}
```

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}

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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.pr
        intln(ch);
    }
}
```

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24. EnhancedloopinjavaProgram

```

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 Multiplicationtable 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 its multiplicationtable");
        Scanner in = new Scanner (System.in); n = in
            .nextInt ();
        System.out.println ("Multiplicationtable 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 [])

```

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```
{  
int a, b, c, d;
```

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```

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++;
    }
  }
}

```

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;

}

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```
        status=1; num++;  
    }  
}
```

27. Check noisArmstrong 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) {digi
            ts++;
            temp=temp/10;
        }

        temp=n;
        while (temp!=0) {remainde
            r=temp%10;
            sum=sum+power (remainder, digits);temp=tem
            p/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;
    }
}
```

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```

    }
}

```

28. PrintFloyd'sTriangle injava 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. FindAllsubstringof stringinjava 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 its all substrings");
        string = in.nextLine();
    }
}

```

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```
length=string.length();
```

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```

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());
    }
}
    
```

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31. Check GivenNo ispalindrome orNot injavaProgram

```

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.");
    }
}

//AnotherMethod
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{
    }
}

```

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```
        break;  
    }  
}
```

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```

        if(i==middle+1) {System.out.println("Palindr
            ome");
        }
        else{
            System.out.println("Notapalindrome");
        }
    }
}
    
```

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[
    
```

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```
c] [d]+"\t");
```

```
System.out.println();
```

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}

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++)
                {

```

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```
for (k=0; k<p; k++)
{
```

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

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

System.out.println("Productofenteredmatrices:-");

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

    System.out.print("\n");
}
}
}
```

34. Howto get transpose ofmatrix in javaProgram

```
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 matrix is");

        for (c=0; c<n; c++)
        {
            for (d=0; d<m; d++) System.out.print (transpose [c] [d] + " ");
            System.out.println ();
        }
    }
}
```

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```
    ix[c][d];  
}
```

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```

System.out.println("Transposeofenteredmatrix:-");

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 = "he
lo";
        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 = "javabyTechnoLamror";
        System.out.println(s1.endsWith("r")); //true
        System.out.println(s1.endsWith("Lamror"));
        //true
        System.out.println(s1.endsWith("lamror")); //false
    }
}

```

37. How to use indexOf() in java Program

```

public class IndexOfExample {
    public static void main(String args[]) {
        String s1 = "thisisindexofexample";
        //passing substring
    }
}

```

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```
int index1=s1.indexOf("is");//returnstheindexofissubstring
int index2=s1.indexOf("index");//returnstheindexofindexsubstringSystem
.out.println(index1+" "+index2);//28
```

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```
//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 character 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 Islam ror. My name is Techno l amror. "; 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 Techno l amror";
String [] words=s1.split("\\s"); //split 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=" hellostring ";
System.out.println(s1+"Techno l amror"); //without trim() System.out.println(s1.trim()
()+"Techno l amror"); //with trim()
}}
```

41. How to convert all char in string lowercase in java Program

```
public class StringLowerExample{
public static void main(String args[]){

```

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```
String s1="TECHNOLAMRORbyRajendraLamrorHELLOstRIng";String s1
lower=s1.toLowerCase();
```

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```
System.out.println(s1lower);
}}
```

42. How to create method in java Program

```
class Methods {
    //Constructormethod

    Methods () {
        System.out.println ("Constructormethod is called when an object of its class is created");
    }

    //Mainmethod where program execution begins

    public static void main (String [] args) { static
        cMethod ();
        Methods object = new Methods (); object
        .nonStaticMethod ();
    }

    //Staticmethod

    static void staticMethod () {
        System.out.println ("Staticmethod can be called without creating object");
    }

    //Nonstaticmethod

    void nonStaticMethod () {
        System.out.println ("Nonstaticmethod must be called by creating an object");
    }
}
```

43. FindLength, 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
```

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```

n=s.length();
System.out.println("Numberofcharacters="+n);

//Replacecharactersinstring

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

//Concatenatingstringwithanotherstring

u=s.concat("isfun");Syst
em.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.pri
    ntln("Main method is executed.");
  }

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

// Static Block Application.... We need to open Program in specific 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){Syst
      em.exit(1);
    }
  }
}

```

45. Difference between Static and Instance method

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workinginjavaProgram

```
class Difference {  
  
    public static void main (String [] args) {displ  
        ay (); //calling without object
```

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```

Differencec=newDifference();t.sho
w();           //callingusingobject
}

staticvoiddisplay(){System.out.println("Programmi
ngisamazing.");
}

voidshow(){
    System.out.println("Javaisasawesome.");
}
}

```

46. How to create Multiple class in java Program

```

class Computer{Comput
er(){
    System.out.println("Constructor of Computer class.");
}

void computer_method(){
    System.out.println("Power gone! Shutdown your PC soon....");
}

public static void main(String[] args) {Computer my=n
ew Computer();
Laptop your=new Laptop();

my.computer_method();your.laptop_m
ethod();
}
}

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{
```

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```
//constructormethod
Programming() {
    System.out.println("Constructormethodcalled.");
}
```

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```

public static void main(String[] args) {
    Programmingobject=new Programming(); //creating object
}
}

```

48. How to create constructor overloading in java Program

```

class Language{ String
    name;

    Language () {
        System.out.println("Constructormethod called.");
    }

    Language (String t) {name=
        t;
    }

    public static void main (String [] args) {Langu
        agecpp
            =new Language ();Languagej
        ava=new Language ("Java");

        cpp.setName ("C++");

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

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

    void getName () {
        System.out.println ("Languagename:" +name);
    }
}

```

49. Exception Handling java Program

```

class Division{
    public static void main (String [] args) {

```

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```
inta,b,result;  
  
Scannerinput=newScanner(System.in);System.out.println("Inputtwointegers");
```

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```

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

//tryblock

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

//catchblock

catch(ArithmetricExceptione){System.out.println("Exceptionca
ught:Divisionbyzero.");
}
}
}
}

```

50. How to throw exception in java Program

```

public class TestThrow1{
    static void validate(int age){
        if(age<18)
            throw new ArithmetricException("not valid");
        else
            System.out.println("welcometovoteonTechnolamror");
    }
    public static void main(String args[]){
        validate(13);
        System.out.println("restofthecode...");
    }
}

```

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.");
        }
    }
}

```

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}

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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
        eobj=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(da
        te);
    }
}
//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); mon
        th=date.get(Calendar.MONTH);
        year=date.get(Calendar.YEAR);

        second=date.get(Calendar.SECOND); mi
    }
}

```

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```
nute=date.get(Calendar.MINUTE);hour  
=date.get(Calendar.HOUR);
```

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```

        System.out.println("Currentdateis
                           em.out.println("Currenttimeis
                           }
}

```

54. HowtoSQLDate in javaProgram

```

importjava.sql.Date;
publicclassStringToSQLDateExample{
publicstaticvoidmain(String[]args){String
    tr="2015-03-31";
    Datedate=Date.valueOf(str);//convertingstringintosqldateSystem.out.println(
    date);
}
}

```

55. HowtoDateFormat in javaProgram

```

importjava.text.ParseException;import
java.text.SimpleDateFormat;importjava
.util.Date;
importjava.util.Locale;
publicclassSimpleDateFormatExample2{
publicstaticvoidmain(String[]args){Datedat
e=newDate();
System.out.println("DateformatchnagebyTechnolamror");SimpleDat
eFormatformatter=newSimpleDateFormat("MM/dd/yyyy");StringstrDat
e=formatter.format(date);System.out.println("DateFormatwithMM/d
d/yyyy:"+strDate);

formatter=newSimpleDateFormat("dd-M-
yyyyhh:mm:ss");strDate=formatter.format(date);
System.out.println("DateFormatwithdd-M-yyyyhh:mm:ss:"+strDate);

formatter=newSimpleDateFormat("ddMMMMyyyy");strDate=for
matter.format(date);
System.out.println("DateFormatwithddMMMMyyyy :"+strDate);

formatter=newSimpleDateFormat("ddMMMMyyyyzzz");strDate
=formatter.format(date);
System.out.println("DateFormatwithddMMMMyyyyzzz :"+strDate);

formatter=newSimpleDateFormat("E,ddMMMyyyyHH:mm:ssz");strDate=for
matter.format(date);
System.out.println("DateFormatwithE,ddMMMyyyyHH:mm:ssz :"+strDate);

```

::59::

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}

}

::60::

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56. HowtoGenerate random number in javaProgram

```
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 javaProgram

```
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 javaProgram

```
import java.net.InetAddress;

class IPAddress
{
    public static void main (String args []) throws Exception
    {
```

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

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59. Howto opennotepad in javaProgram

```
importjava.util.*;
importjava.io.*;

classNotepad{
    publicstaticvoidmain(String[]args){
        Runtimers=Runtime.getRuntime();

        try{rs.exec("notepad"
            );
        }
        catch(IOExceptione){Syst
            em.out.println(e);
        }
    }
}
```

60. LeanersearchProgram injava

```
importjava.util.Scanner;

classLinearSearch
{
    publicstaticvoidmain(Stringargs[])
    {
        intc,n,search,array[];

        Scannerin=newScanner(System.in);System.out.prin
        tln("Enternameofelements");n=in.nextInt();
        array=newint[n];

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

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

        System.out.println("Entervaluetofind");

        search=in.nextInt();

        for(c=0;c<n;c++)
        {
            if(array[c]==search)           /*Searchingelementispresent*/
            {
```

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```
System.out.println(search+"ispresentatlocation"+(c+1)+  
".");  
break;  
}
```

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```
        }
    if(c==n)          /*Searching element is absent*/
        System.out.println(search+"is not present in array.");
    }
}
```

61. BinarysearchProgram injava

```
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.print
tln ("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"); sea
rch = 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 " +
".");
                break;
            }
            else
                last = middle - 1;

            middle = (first + last) / 2;
        }
        if (first > last)
            System.out.println ("Value not found");
    }
}
```

..65..

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```
System.out.println(search+"isnotpresentinthelist.\n");  
}  
}
```

::66::

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62. Bubblesort 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 integer 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.ne
        xtInt ();

        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]; arr
                    ay [d]
                        =array [d+1]; a
                    rray [d+1]=swap;
                }
            }
        }

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

        for (c=0; c<n; c++) System.out.pri
        ntln (array [c]);
    }
}
    
```

63. How to connect Database using java Pr ogram

```

import java.sql.*;
class OracleCon{
    
```

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```
public static void main(String args[]){
try{
//step1 load the driver class.forName("oracle.jdbc.driver.OracleDriver");
//step2 create the connection object
```

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```

Connectioncon=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system"
,"oracle");
//step3createthestatementobjectStatement
entstmt=con.createStatement();
//step4executequery
ResultSetrs=stmt.executeQuery("select*fromemp");
while(rs.next())
System.out.println(rs.getInt(1)+" "+rs.getString(2)+" "+rs.getString(3));
//step5closetheconnectionobjectcon.cl
ose();
}catch(Exceptione){System.out.println(e);}

}
}

```

64. Howtoinsert dataintable using JDBCinjavaProgram

```

import java.sql.*;
class InsertPrepared{
public static void main(String args[]){
try{Class.forName("oracle.jdbc.driver.OracleDriver")
;
Connectioncon=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system"
,"oracle");
PreparedStatementstmt=con.prepareStatement("insertintoEmpvalues(?,?)");stmt.setInt(1,10
1); //1speciesthefirstparameterinthekwerystmt.setString(2,"Ratan");
inti=stmt.executeUpdate();System.out.println(i+" "
recordsinserted");con.close();
}catch(Exceptione){System.out.println(e);}

}
}

```

65. Howtoinsertimage usingJDBC in javaProgram

```

import java.sql.*;
import java.io.*;
public class InsertImage{
public static void main(String []args){
try{Class.forName("oracle.jdbc.driver.OracleDriver")
;Connectioncon=DriverManager.getConnection(
"jdbc:oracle:thin:@localhost:1521:xe","system","oracle");
PreparedStatementps=con.prepareStatement("insertintoimhtablevalues(?,?)");

```

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```

ps.setString(1, "Technolamror");
FileInputStreamfin=new FileInputStream("d:\\g.jpg");ps.setBinaryStream(2,fin,fin.available());
inti=ps.executeUpdate();System.out.println(
i+"recordsaffected");con.close();
}catch(Exceptione){e.printStackTrace();}
}
}

```

66. HowtoexecuteProcedurein JDBC in javaProgram

```

importjava.sql.*;
publicclassProc{
publicstaticvoidmain(String[]args) throwsException{Class.forName
("oracle.jdbc.driver.OracleDriver");
Connectioncon=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system",
"oracle");
CallableStatementstmt=con.prepareCall("{callinsertR(?,?)}");st
mt.setInt(1,1011);
stmt.setString(2, "Amit");stmt.execute(
);System.out.println("success");
}
}

```

67. HowtocheckRegularexpression in javaProgram

```

importjava.util.regex.*;
publicclassRegexExample1{
publicstaticvoidmain(Stringargs[]){
//1stway
Patternp=Pattern.compile(".s");//.representssinglecharacterMatcherm=p.m
atcher("as");
booleanb=m.matches();
//2ndway
booleanb2=Pattern.compile(".s").matcher("as").matches();
//3rdway
booleanb3=Pattern.matches(".s","as");System.out.println(b+" "+
b2+" "+b3);
}}

```

68. HowtocreateMultithreading program injava

```

classMultiextendsThread{
publicvoidrun(){System.out.println("threadi
srunning...");}
}

```

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```

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

```

71. How to read data from text file using java program

```

import java.io.FileInputStream;

```

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```
public class DataStreamExample{
```

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```

public static void main(String args[]){
    try{
        FileInputStream fin=new FileInputStream("D:\\Technolamror.txt");
        int i=fin.read();System.out.p
        rint((char)i);

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

```

72. Howto getURLof site usingjavaPrograms

```

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("HostName:"+url.getHost());System.out.print
ln("PortNumber:"+url.getPort());System.out.println("File
Name:"+url.getFile());

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

```

73. Howto get IPaddressfromsiteURLUsingjavaprogram

```

import java.io.*;import
java.net.*;public class
InetDemo{
public static void main(String[] args){
try{
InetAddress ip= InetAddress.getByName("www.Technolamror.com");

System.out.println("HostName:"+ip.getHostName());System.out.p
rintln("IPAddress:"+ip.getHostAddress());
}catch(Exception e){System.out.println(e);}
}
}

```

74. HowtocreateAWTprograminjava

```

import java.awt.*;
class First extends Frame{First(){
}
}

```

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```
Buttonb=newButton("clickme");b.setBounds(30,100,80,30);/  
/settingbuttonposition
```

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```

add(b); //addingbuttonintoframesetSize(300,300); //framesize300widthand300heightsetLayout(null); //nolayoutmanager
setVisible(true); //nowframewillbevisible,bydefaultnotvisible
}
public static void main(String args[]){First
f=new First();
}}

```

75. How to add label 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("FirstLabel.");l1.setBounds(50,100,100,30);l2=new Label("SecondLabel.");
  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("WelcometoTechnoLamror");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(){

```

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```

Frame f=newFrame();Choice c=new
Choice();c.setBounds(100,10
0,75,75);
c.addItem("Item1byRajendra");c.addItem(
"Item2byLamror");c.addItem("Item3byTe
chnolamror");c.addItem("Item4");
c.addItem("Item5");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(130,1
00,100,40); //xaxis,yaxis,width,height
f.add(b); //adding button in JFrame
f.setSize(400,500); //400 width and 500 height
f.setLayout(null);
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("CheckBoxExample by Technolamror"); JCheckBox check
        Box1=new JCheckBox("C++"); checkBox1.setBounds(100,100,50,50);
        JCheckBox checkBox2=new JCheckBox("Java",true); checkBox2.setBou
        nds(100,150,50,50); f.add(checkBox1);
        f.add(checkBox2); f.setSize(400,4
        00); f.setLayout(null); f.setVisible(true);
    }
    public static void main(String args[])
}

```

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```
{
newCheckBoxExample();
}}
```

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="9
990449935";
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

::77::

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injavaprogram

```
public class StringToDoubleExample{  
    public static void main(String args[]){
```

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```

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="1231,1998";String sDate4="Thu,Dec311998";
String sDate5="Thu,Dec31199823:37:50";String sDate6="31-Dec-199823:37:50";
SimpleDateFormat formatter1=new SimpleDateFormat("dd/MM/yyyy");SimpleDateFormat
formatter2=new SimpleDateFormat("dd-MMM-
yyyy");SimpleDateFormat formatter3=new SimpleDateFormat("MMdd,yyyy");SimpleDat
eFormat formatter4=new SimpleDateFormat("E, MMMddyyyy");SimpleDateFormat format
ter5=new SimpleDateFormat("E, MMMddyyyyHH:mm:ss");SimpleDateFormat formatter6=ne
w SimpleDateFormat("dd-MMM-yyyyHH:mm:ss");Date date1=formatter1.parse(sDate1);
Date date2=formatter2.parse(sDate2);D
ate date3=formatter3.parse(sDate3);Da
tedate4=formatter4.parse(sDate4);Dat
edate5=formatter5.parse(sDate5);Date
date6=formatter6.parse(sDate6);
System.out.println("String to Date converter by technolamror");System.o
ut.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.print
ln(sDate6+"\t"+date6);
}
}

```

86. Create ArrayList program in java

```

import java.util.*;
class Arrylist_Technolamr{
public static void main(String args[]){
ArrayList<String> list=new ArrayList<String>();//Creating arraylist list
.list.add("Rajendra");//Adding object in arraylist list.add("Mahendra");
.list.add("Raja");list.add("Technolamr
or");
}

```

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```
//Traversing list through Iterator
or 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_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(
        le(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=auth
    or;
    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, "LetusC", "Yashwant Kanetkar", "BPB", 8);
    
```

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```
Book b2=newBook(102,"JavaProgramQuestation","Rajendra","Technolamror",4);Book  
b3=newBook(103,"OperatingSystem","Galvin","Wiley",6);  
//AddingBookstolist
```

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```

list.add(b1);
list.add(b2);
list.add(b3);
System.out.println("Originalcontentoflistis:");
//Traversinglist
for(Bookb:list){
System.out.println(b.id+" "+b.name+" "+b.author+" "+b.publisher+" "+b.quantity);
}
ListIterator<Book>itr=list.listIterator();System.out.println("Modifiedcontentoflistinbackwardis:");
while(itr.hasNext()){
    Bookst=(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> se
t=new HashSet<String>();set.add("Rajendra");
set.add("Raja");
set.add("Ravi");set.add("TechnoLamro
r");
//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_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()){

```

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```

    }
}

```

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>
        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(i
        tr.next());
        }
    }
}

```

92. How to create PriorityQueue program in java

```

import java.util.*;
class PriorityQueue_Technolamror{
    public static void main(String args[]){
        PriorityQueue<String> que
        ue=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("i
        terating the queue elements:");
        Iterator<String> itr=queue.iterator();
        while(itr.hasNext()) {System.out.println(i
        tr.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());
        }
    }
}

```

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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> m
        = new HashMap<Integer, String>(); m.put(100, "Rajendra"
        );
        m.put(101, "Lamror"); m.put(102, "Technolamror");
        for(Map.Entry m : m.entrySet()){
            System.out.println(m.getKey() + " " + m.getValue());
        }
    }
}
```

94. How to create LinkedHashMap program in java

```
import java.util.*;
class LinkedHashMap_Technolamror{
    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> h
        = new TreeMap<Integer, String>(); h.put(100, "Amit");
        h.put(102, "Ravi");
        h.put(101, "Vijay"); h.put(103, "Techno
        lamror");
        for(Map.Entry m : h.entrySet()){
            System.out.println(m.getKey() + " " + m.getValue());
        }
    }
}
```

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}

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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] + " ");
}
}
}

```

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```
}
```

```
System.out.println();
```

```
}
```

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}}

99. How to create Find Factorial N using Recursion Program in java

```
public class Recursion_Technology {
    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());
    }
}
```