Java codes

**Operator**

**Arithmtic operator:-**

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

**int** a=10,b=5;

System.***out***.println("addition:"+(a+b));

System.***out***.println("substraction:"+(a-b));

System.***out***.println("multiplication:"+(a\*b));

System.***out***.println("division:"+(a/b));

System.***out***.println("modules:"+(a%b));

}

}

**public** **class** Unaryoperator {

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

**int** i=20, j=15;

//15!(++) (post increment) is j++;

//1+15!(++) (pre increment) is ++j

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

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

//20!(--) (post decrement) is i--;

//1-20!(--) (pre increment) is --i;

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

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

}

}

**public** **class** Couts {

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

String a="marolix";

**int** count =0;

**for**(**int** i=0;i<a.length();i++) {

count++;

}

System.***out***.println("count of char in string:"+count);

}

}

**public** **class** AssignmenOpert {

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

**int** p=35, q=40;

//p=p+10 //35+10;

p+=10;

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

//q+=8; //40+8;

q+=8;

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

}

**public** **class** ConditionOperat {

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

**int** test=25, dev=55;

System.***out***.println(test<dev&&test==dev);

System.***out***.println(test>dev||test!=dev);

}

}

**public** **class** RelationOperator {

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

**int** a=5, b=10;

System.***out***.println("A is equal to B :"+(a==b));

System.***out***.println("A is not equals to B :"+(a!=b));

System.***out***.println("A is greater then B :"+(a>b));

System.***out***.println("A is less than B :"+(a<b));

System.***out***.println("A is greaterthan equal to B :"+(a>=b));

System.***out***.println("A is less than equal to B :"+(a<=b));

}

}

Keywwords;

**public** **class** BreakKey {

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

**int** a=11;

**for** (**int** i= 1; i<=a; i++){

**if**(i==3) { //hiding given value

**break**;

}

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

}

}

}

**public** **class** ContinueKey {

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

**int** a=5;

**for** (**int** i= 1; i<=a; i++){

**if**(i==10) {

**continue**;

}

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

}

}

**public** **class** ForKey {

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

**int** a=11;

**for** (**int** i= 1; i<=a; i++){

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

**break**;

}

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

}

}

}

**public** **class** Switch {

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

**int** a=2;

**switch** (a) {

**case** 1:

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

**break**;

**case** 2:

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

**break**;

**case** 3:

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

**break**;

**default**:

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

}

}

}

**Loop:-**

**package** Heritance;

**class** nagarjuna{

**int** agea=65;

**public** **void** manam() {

System.***out***.println("release in 2015");

}

}

**class** chaithu **extends** nagarjuna{

**int** ageb=38;

**public** **void** premam() {

System.***out***.println("release in 2018 ");

}

}

**class** akhil **extends** nagarjuna {

**int** agec =30;

**public** **void** agent() {

System.***out***.println("release in 2023");

}

}

**public** **class** HirarchicalInher {

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

chaithu s= **new** chaithu();

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

s.manam();

s.premam();

}

}

**package** Heritance;

**class** indhira{

**int** age=45;

**public** **void** congress() {

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

}

}

**class** rajiv **extends** indhira{

**int** agee=25;

**public** **void** congressa() {

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

}

}

**class** rahul **extends** rajiv {

**int** ageaa=8;

**public** **void** congressb() {

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

}

}

**public** **class** MultilevelInher {

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

rahul r=**new** rahul();

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

r.congressa();

r.congress();

r.congressb();

}

}

**package** Heritance;

**interface** krishnamraju {

**public** **void** ab();

}

**interface** suryanarayana{

**public** **void** ca();

}

**interface** shivakumari{

**public** **void** db();

}

**class** prabhas **implements** krishnamraju,suryanarayana,shivakumari{

**public** **void** ab() {

System.***out***.println("networth is 100 crores");

}

**public** **void** ca() {

System.***out***.println("networth is 10 crores");

}

**public** **void** db() {

System.***out***.println("networth is 1 crore");

}

}

**public** **class** MultipleInher {

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

prabhas p=**new** prabhas();

p.ab();

p.ca();

p.db();

}

}

**package** Heritance;

**class** father{

**int** age=45;

**public** **void** Ashok() {

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

}

}

**class** daughter **extends** father{

**int** agee=25;

**public** **void** spandy() {

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

}

}

**public** **class** SingleInheritance {

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

father p=**new** father();

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

p.Ashok();

}

}

**Constructor:-**

**package** Constructor;

**public** **class** ConstructorA {

String s;

**int** t;

ConstructorA(String b,**int** c){

s="span";

t=5;

}

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

ConstructorA a=**new** ConstructorA("span",5);

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

}

}

**package** Constructor;

**public** **class** ConstuctorB {

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

String a;

**int** b;

**boolean** f;

ConstructorB(String c,**int** d,**boolean** e){

a=c;

b=d;

f=e;

}

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

ConstructorB s=**new** ConstructorB("span",5,**true**);

System.out.println(s.c);

}

}

}

**Condition:-**

**public** **class** DoWhile {

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

**int** b=16;

**do** {

System.***out***.println("value of B"+b);

b++;

}

**while**(b<15);

}

}

**public** **class** ElseIf {

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

String i="Postgraduation";

**if**(i.equals("intermediate")) {

System.***out***.println("Candidate completed Diploma");

}

**else** **if**(i.equals("Graduation")){

System.***out***.println("Candidate persued B.tech");

}

**else** **if**(i.equals("PostGraduation")) {

System.***out***.println("Candidate completed MBA");

}

**else** {

System.***out***.println("Not found in the records");

}

}

}

**public** **class** ForDecrement {

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

**int** a=1;

**for** (**int** i=5; i<=a; i--) { //5<=1; //4<=1; //3<=1; //2<=1; //1<=1; //0<=1;

System.***out***.println(i); //5 //4 //3 //2 //1

}

}

}

**public** **class** ForKeyword {

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

**int** a=5;

**for** (**int** i=1; i<=a; i++) { //1<=5; //2<=5; //3<=5; //4<=5; //5<=5; //6<=5;

System.***out***.println(i); //1 //2 //3 //4 //5

}

}

}

**public** **class** Ifelse {

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

**int** a=25,b=45;

**if**(a>45) {

System.***out***.println("A is greater than B");

}

**else**

{

System.***out***.println("B is greater than A");

}

}

}

**public** **class** NestedIf {

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

String state="Southindia, Telangana";

**if**(state.startsWith("Southindia")) {

**if**(state.contains("Telangana")) {

System.***out***.println("HYD City");

}

**else** **if**(state.contains("Andhrapradesh")) {

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

}

**else** **if**(state.contains("Karnataka")) {

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

}

**else** {

System.***out***.println("Unable to find the Area");

}

}

**else** {

System.***out***.println("Unable to find the State");

}

}

}

**public** **class** WhileDo {

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

**int** a=10;

**while**(a<15) {

System.***out***.println("Value of A:"+a);

a++;

}

}

}

**Collection:=**

**public** **class** Arraylist {

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

ArrayList q=**new** ArrayList();

q.add(**null**);

q.add(**true**);

q.add('s');

q.add("spa");

q.add(12.1);

q.add(33);

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

System.***out***.println("size of an array:"+q.size());

q.remove(2);

System.***out***.println("Remove an element:"+q);

q.add(1,"monday");

System.***out***.println("Adding an element:"+q);

q.set(1, "weak");

System.***out***.println("Replacing an index number:"+q);

System.***out***.println("element is present or not:"+q.contains("artc"));

System.***out***.println("After sorting :"+q);

System.***out***.println("Reverse order:"+q);

System.***out***.println("Arrayist is empty are not:"+q.isEmpty());

**for**(**int** i=0;i<=q.size();i++) {

System.***out***.print("for loop"+i); // is called for each loop

}

**for** (Object spa : q) { //for each press( control space then enter)

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

}

Iterator as=q.iterator();

**while**(as.hasNext());

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

}

}

**public** **class** Hasset {

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

HashSet ah=**new** HashSet();

ah.add(11);

ah.add(**true**);

ah.add('s');

ah.add("apple");

ah.add(11);

ah.add(1.2);

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

HashSet aj = **new** HashSet();

aj.add(13);

aj.add('a');

aj.add(1.2);

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

//aj.addAll(ah);

// System.out.println(ah);

//aj.retainAll(ah);

//System.out.println(aj);

//aj.removeAll(ah);

//System.out.println(aj);

Iterator aa=aj.iterator();

**while** (aa.hasNext()) {

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

}

}

}

**public** **class** LinkedHass {

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

LinkedHashSet hs =**new** LinkedHashSet();

hs.add(25);

hs.add('s');

hs.add(8.5);

hs.add(**true**);

hs.add("span");

hs.add(25);

//System.out.println(hs);

**for**(**int** l=0;l<=hs.size();l++){

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

}

**for** (Object l : hs) {

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

}

}

}

**public** **class** Linklis {

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

LinkedList sp=**new** LinkedList();

sp.add(10);

sp.add(**false**);

sp.add("spp");

sp.add('p');

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

sp.addFirst('p');

System.***out***.println("After adding first element:"+sp);

sp.addLast(10);

System.***out***.println("After adding last element:"+sp);

}

}

**Array:-**

**public** **class** Linklis {

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

LinkedList sp=**new** LinkedList();

sp.add(10);

sp.add(**false**);

sp.add("spp");

sp.add('p');

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

sp.addFirst('p');

System.***out***.println("After adding first element:"+sp);

sp.addLast(10);

System.***out***.println("After adding last element:"+sp);

}

}

**public** **class** Array2 {

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

**int** b[]=**new** **int** [5];

b[0]=10; //b[1]=11; (11 is an element)(b[1] is index starts from 0)

b[1]=11;

b[2]=12;

b[3]=13;

b[4]=14;

System.***out***.println(b[0] +" "+b[1] +" "+b[2] +" "+b[3] + " "+b[4]);

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

**for** (**int** i=b.length-1;i>=1;i--) {

System.***out***.println(b[i]);

}

}

}

**public** **class** Dimensional {

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

String k[][]=**new** String [2][3];

k[0][0]="flipkart";

k[0][1]="amazon";

k[0][2]="ajio";

k[1][0]="mynthra";

k[1][1]="meesho";

k[1][2]="swiggy";

**for** (**int** i=0;i<2;i++) {

**for**( **int** j=0;j<3;j++) {

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

}

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

}

}

}

**public** **class** MultipleDim {

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

String s[][]=**new** String [3][4];

s[0][0]="domain";

s[0][1]="test";

s[1][1]="python";

s[1][0]="java";

s[1][2]="dev";

s[2][1]="javascript";

s[2][0]="manual";

s[2][2]="ruby";

**for** (**int** i=0;i<2;i++) {

**for**( **int** j=0;j<3;j++) {

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

}

}

}

}

**Accermodifier:-**

**public** **class** Defau {

**int** a=2;

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

Defau d=**new** Defau();

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

String s="span";

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

}

}

**public** **class** Private {

**public** **int** a=5;

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

Private d=**new** Private();

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

}

}

**public** **class** pub {

**int** a=5;

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

pub d=**new** pub();

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

}

}

**Exception handling:-**

**public** **class** ExceptionHandling {

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

**try** { **int** a=10;

System.***out***.println(a/0); //arithemeticException

}

//String s=null;

**catch**(ArithmeticException test) {

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

**throw** test;

}

**finally** {

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

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

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

}

//System.out.println(s.length()); //nullpointerExceptioN

//int k[]=new int [2];

//k[5]=10; //ArrayindexoutofboundsException

//System.out.println(k[5]);

//String p="spandana";

//int a=Integer.parseInt(p); //NumberFormatException

//System.out.println(a);

}

}

**String:-**

**public** **class** ReverseStr {

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

StringBuilder sb= **new** StringBuilder();

sb.reverse();

System.***out***.println("sb.toString()");

}

}

**public** **class** StingClass {

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

String s=**new** String ("Marolix");

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

System.***out***.println("Length of the string"+s.length());

System.***out***.println("index of the character"+s.indexOf("i"));

System.***out***.println("Positive of the character"+s.charAt(0));

System.***out***.println("replacing with"+s.replace("a", "x"));

System.***out***.println("changing the string lowercase"+s.toLowerCase());

System.***out***.println("chamging the uppercase"+s.toUpperCase());

System.***out***.println("removing the space"+s.trim());

}

}

**public** **class** Stringbuffer {

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

StringBuffer sb=**new** StringBuffer("Wipro techmologies");

sb.append("@India");

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

System.***out***.println(sb.insert(8,"Technology"));

System.***out***.println(sb.delete(8,18));

//System.out.println(sb.reverse());

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

//System.out.println(sb.indexOf(""));

System.***out***.println(sb.charAt(5));

System.***out***.println(sb.substring(9)); // Divide the string

System.***out***.println(sb.subSequence(8, 15)); // print the partial String

StringBuffer a=**new** StringBuffer("Spandana");

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

}

}