**1.Write your own program using arthmetic operators. Code:**

import java.util.Scanner; public class Arithmetic {

public static void main(String[] args) { // TODO Auto-generated method stub int x,y;

Scanner sc=new Scanner(System.in);

System.out.println("Enter the numbers to perform arithmetic operation:"); x=sc.nextInt(); y=sc.nextInt(); int add=x+y;

System.out.println("addition of x and y is:"+add); int sub=x-y;

System.out.println("substraction of x and y is:"+sub); int mul=x\*y;

System.out.println("multiplication of x and y is:"+mul); int div=x/y;

System.out.println("division of x and y is:"+div); int mod=x%y;

System.out.println("modlusof x and y is:"+mod);

}

}

**2.Write your own program using arthmetic assignment operators. Code:** import java.util.Scanner; public class Assignment2 {

public static void main(String[] args) {

//Object system;

// TODO Auto-generated method stub

//Arithmetic assignment operators are =,+=,-=,/=,%=,\*=

Scanner sc=new Scanner(System.in);

int a,b;

System.out.println("Enter two numbers a and b:"); a=sc.nextInt(); b=sc.nextInt();

System.out.println(a=b);//assigns b value to a System.out.println(a+=b);//a=a+b

System.out.println(a-=b);//a=a-b

System.out.println(a\*=b);//a=a\*b

System.out.println(a/=b);//a=a/b

System.out.println(a%=b);//a=a&b

}

}

**3.Write your own program using relational operators.**

import java.util.Scanner;

public class relational {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner sc=new Scanner(System.in);

System.out.println("Enter the values of a and b:"); int a=sc.nextInt(); int b=sc.nextInt();

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

System.out.println("a is greater than b is:"+(a>b));

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

System.out.println("a is greater than or equal to b is:"+(a>=b));

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

System.out.println("a is not equal to b is:"+(a!=b));

}

}

**4.Write your own program using logical operators.**

code:

import java.util.Scanner{

public class Logical {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner sc=new Scanner(System.in);

System.out.println("Enter the four numbers:"); int a=sc.nextInt(); int b=sc.nextInt(); int c=sc.nextInt(); int d=sc.nextInt();

//logical and operator(&&)It prints true if both the expressions are true or else false

System.out.println("logical AND operator:");

System.out.println((a>b)&&(c>d));

System.out.println((a>b)&&(c<d));

System.out.println((a<b)&&(c>d));

System.out.println((a>b)||(c>d));

//logical OR operator(||)It prints true if either of the expression is true

System.out.println("logical OR operator:");

System.out.println((a>b)||(c>d));

System.out.println((a>b)||(c<d));

System.out.println((a<b)||(c>d));

System.out.println((a<b)||(c<d));

//logical NOT operator(!) prints true if the expression is false and vice versa

System.out.println("logical NOT operator:");

System.out.println(!(a==b));

System.out.println(!(a<b));

System.out.println(!(a<=b));

System.out.println(!(a>=b));

}

}

**5.Write your own program to show the use of assignment operator.**

import java.util.Scanner

public class ExampleAssignment {

public static void main(String[] args) { // TODO Auto-generated method stub int a;

Scanner sc=new Scanner(System.in); System.out.println("enter the number:"); a=sc.nextInt();

System.out.println("Assignment operator += is:"+(a+=1));

System.out.println("Assignment operator += is:"+(a-=2));

System.out.println("Assignment operator += is:"+(a\*=3));

System.out.println("Assignment operator += is:"+(a/=1));

}

}

**6.Write a program to check age of student is greater than 18.**

import java.util.Scanner;

public class Age {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner sc=new Scanner(System.in); System.out.println("Enter the numbers:"); int age=sc.nextInt();

//entered age is eligible it will say true else it will say false

System.out.println((age>=18?"student age is greater than 18":"student age is not greater than 18"));

}

}

**7.Write a program to check number is even or odd. code:**

import java.util.Scanner;

public class EvenOdd {

public static void main(String[] args) { // TODO Auto-generated method stub

Scanner input=new Scanner(System.in);

System.out.println("Enter the number"); int num=input.nextInt();

String evenOdd=(num%2==0)?"even":"odd";

System.out.println(num + " is "+evenOdd);

}

}

**8.write a program to check whether number is greater than 100 and 200.**

import java.util.Scanner;

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

// TODO Auto-generated method stub

Scanner sc=new Scanner(System.in);

System.out.println("Enter the number which is greater than 100 and 200:"); int num=sc.nextInt();

System.out.println("if entered number is greater than 100 and 200 it will say true else it will say false");

System.out.println(num>100&&num>200);

}

}

**9.write a program to check whether both numbers are same or not.**

**code:**

Note: dont use the if and switch case. write a simple programs without using if and switch in all the belowprograms.

import java.util.Scanner

public class NumberSame {

public static void main(String[] args) {

// TODO Auto-generated method stub

Scanner sc=new Scanner(System.in); int a,b;

System.out.println("Enter the values of a and b:"); a=sc.nextInt(); b=sc.nextInt();

String Equal=(a==b)?"equal":"notequal";

System.out.println("The number a and b are:"+Equal);

}

}