**Assignment\_Operators**

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**Write your own program using arithmetic operators.**

**Ans:**

**package** operators;

**import** java.util.Scanner;

**public** **class** ArithmaticOperation {

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

**int** num1=0,num2=0;

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

System.***out***.println("enter two number : ");

num1=input.nextInt();

num2=input.nextInt();

**int** sum,sub,mul,div,modulo;

sum=num1+num2;

sub=num1-num2;

mul=num1\*num2;

div=num1/num2;

modulo=num1%num2;

System.***out***.println("Addition of two numbers: "+sum);

System.***out***.println("Subtraction of two numbers: "+sub);

System.***out***.println("Multipliucation of two numbers: "+mul);

System.***out***.println("Division of two numbers: "+div);

System.***out***.println("modulo of two numbers: "+modulo);

input.close();

}

enter two number :

89 12

Addition of two numbers: 101

Subtraction of two numbers: 77

Multiplication of two numbers: 1068

Division of two numbers: 7

modulo of two numbers: 5

}

**Write your own program using arithmetic assignment operators.**

**Ans:**

**package** operators;

**import** java.util.Scanner;

**public** **class** ArithmaticAssignment {

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

**int** num1=0,moduloResult=0,addResult=0,mulResult=0,num2,num3,num4,num5;

**float** subResult=0,divResult=0;

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

System.***out***.println("enter five number : ");

num1=input.nextInt();

num2=input.nextInt();

num3=input.nextInt();

num4=input.nextInt();

num5=input.nextInt();

addResult=num1+=10;

subResult=num2-=10;

mulResult=num3\*=10;

divResult= num4/=10;

moduloResult=num5%=10;

System.***out***.println("arithmatic assignment in addition "+addResult);

System.***out***.println("arithmatic assignment in subtraction "+subResult);

System.***out***.println("arithmatic assignment in multiplication "+mulResult);

System.***out***.println("arithmatic assignment in division "+divResult);//100=100/10

System.***out***.println("arithmatic assignment in modulo "+moduloResult);

input.close();

}

}

enter five number :

12 12 12 12 12

arithmatic assignment in addition 22

arithmatic assignment in subtraction 2.0

arithmatic assignment in multiplication 120

arithmatic assignment in division 1.0

arithmatic assignment in modulo 2

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

**Ans:**

**package** operators;

**import** java.util.Scanner;

**public** **class** Relational\_Operation {

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

{

**int** num1,num2;

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

System.***out***.println("enter the two number: ");

num1=input.nextInt();

num2=input.nextInt();

System.***out***.println("number equal to "+num1+"=="+num2+" is "+(num1==num2));

System.***out***.println("number less than or equal to "+num1+"<="+num2+" is "+(num1<=num2));

System.***out***.println("number greater than or equal to "+num1+">="+num2+" is "+(num1>=num2));

System.***out***.println("number lesser "+num1+">"+num2+" is "+(num1>num2));

System.***out***.println("number greater "+num1+"<"+num2+" is "+(num1<num2));

System.***out***.println("number not equal to "+num1+"!="+num2+" is "+(num1!=num2));

input.close();

}

}

enter the two number:

23 12

number equal to 23==12 is false

number less than or equal to 23<=12 is false

number greater than or equal to 23>=12 is true

number lesser 23>12 is true

number greater 23<12 is false

number not equal to 23!=12 is true

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

**Ans:**

**package** operators;

**import** java.util.Scanner;

**public** **class** LogicalOperation {

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

{

**int** num1=0,num2=0;

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

System.***out***.println("enter the two number: ");

num1=input.nextInt();

num2=input.nextInt();

System.***out***.println("Logical and operation (num1>num2) && (num1==num2) is "+((num1>num2) && (num1==num2)));

System.***out***.println("Logical or operation (num1>num2) || (num1==num2 is "+((num1>num2) || (num1==num2)));

System.***out***.println("Logical not operation (num1>num2) is "+(!(num1>num2)));

System.***out***.println("Logical and operation (num1<num2) && (num1!=num2) is "+((num1<num2) && (num1!=num2)));

input.close();

}

}

enter the two number:

23 45

Logical and operation (num1>num2) && (num1==num2) is false

Logical or operation (num1>num2) || (num1==num2 is false

Logical not operation (num1>num2) is true

Logical and operation (num1<num2) && (num1!=num2) is true

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

**Ans:**

**package** operators;

**import** java.util.Scanner;

**public** **class** ArithmaticAssignment {

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

**int** num1=0,moduloResult=0,addResult=0,mulResult=0,num2,num3,num4,num5;

**float** subResult=0,divResult=0;

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

System.***out***.println("enter five number : ");

num1=input.nextInt();

num2=input.nextInt();

num3=input.nextInt();

num4=input.nextInt();

num5=input.nextInt();

addResult=num1+=10;

subResult=num2-=10;

mulResult=num3\*=10;

divResult= num4/=10;

moduloResult=num5%=10;

System.***out***.println("arithmatic assignment in addition "+addResult);

System.***out***.println("arithmatic assignment in subtraction "+subResult);

System.***out***.println("arithmatic assignment in multiplication "+mulResult);

System.***out***.println("arithmatic assignment in division "+divResult);//100=100/10

System.***out***.println("arithmatic assignment in modulo "+moduloResult);

input.close();

}}

enter five number :

23 12 11 12 12

arithmatic assignment in addition 33

arithmatic assignment in subtraction 2.0

arithmatic assignment in multiplication 110

arithmatic assignment in division 1.0

arithmatic assignment in modulo 2

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

**Ans:**

**package** operators;

**import** java.util.Scanner;

**public** **class** AgeGreater\_18 {

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

**int** age;

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

**do**

{

System.***out***.println("enter the age: ");

age=input.nextInt();

}**while**(age==18 || age>=18);

System.***out***.println("age is not greater than 18...! your entered age is " +age);

input.close();

}}

enter the age: 23

enter the age: 34

enter the age: 17

age is not greater than 18...! your entered age is 17

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

**Ans:**

**package** operators;

**import** java.util.Scanner;

**public** **class** EvenOdd {

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

{

**int** number=0;

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

System.***out***.println("enter the number: ");

number=input.nextInt();

String result=(number%2==0)?"even number" :"odd number";

System.***out***.println(result+" "+number);

input.close();

}

}

enter the number:

24

even number 24

enter the number:

33

odd number 33

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

**Ans:**

**package** operators;

**import** java.util.Scanner;

**public** **class** NumberGreater\_100\_200 {

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

{

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

**int** number=0,greater=0;

System.***out***.println("enter the number: ");

number=input.nextInt();

**while**(number>=100 && number<200) {

greater=1;

**if**(greater==1)

System.***out***.println("yes number is greater than 100 and 200\n your entered number is:"+number);

**break**;

}

input.close();

}

}

enter the number:

12

number not greater than 200

enter the number:

199

yes number is greater than 100 and 200

your entered number is:199

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

**Ans:**

**package** operators;

**import** java.util.Scanner;

**public** **class** NumberSameOrNot {

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

**int** number=12;

**int** num=0;

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

System.***out***.println("enter the number: ");

num=input.nextInt();

**while**(num!=number)

{

System.***out***.println("enter the number from 1 to 20: ");

num=input.nextInt();

}

System.***out***.println("congratulations! your entered number and program number are same!!");

input.close();

}

}

enter the number: 88

enter the number from 1 to 20: 11

enter the number from 1 to 20: 19

enter the number from 1 to 20: 16

enter the number from 1 to 20: 15

enter the number from 1 to 20: 10

enter the number from 1 to 20:

12

congratulations! your entered number and program number are same!!

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

**Date Assigned :09:01:2023 Completed Date:10:01:2023**