**Assignment_5**

**Write your own program using arthmetic operators**

```
package assignmet_4_Operators;
import java.util.Scanner;
public class ArthematicOperators {
// to perform arthematic operaton
	public static void main(String[] args) {

		// TODO Auto-generated method stub
Scanner scanner=new Scanner(System.in);
System.out.println(" enter a number : ");
int num1=scanner.nextInt();
System.out.println("enter a nuber : ");
int num2=scanner.nextInt();
System.out.println("addtion operation :"+(num1+num2));
System.out.println("subtraction operation :"+(num1-num2));
System.out.println("division operation :"+(num1/num2));
System.out.println("multiplication operation :"+(num1*num2));
System.out.println("modulus operation :"+(num1%num2));
	}

}
```

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

```
package assignmet_4_Operators;
import java.util.Scanner;
```

```
public class ArthmeticAssignmentOperator {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
Scanner scanner=new Scanner(System.in);
System.out.println(" emter a number :");
int num=scanner.nextInt();
System.out.println(num+=100);
System.out.println(num*=100);
System.out.println(num-=100);
System.out.println(num%=100);
System.out.println(num/=100);
	}

}
```

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

```
package assignmet_4_Operators;
import java.util.Scanner;
public class RelationalOperators {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
Scanner scanner=new Scanner(System.in);
System.out.println(" enter a number : ");
int n1=scanner.nextInt();
System.out.println("enter a number : ");
int n2=scanner.nextInt();
```

```
System.out.println(" n1 is > n2 :"+(n1>n2));
System.out.println(" n1 is >= n2 :"+(n1>=n2));
System.out.println(" n1 is < n2 :"+(n1<n2));
System.out.println(" n1 is < =n2 :"+(n1<=n2));
System.out.println(" n1 is equals to  n2 :"+(n1==n2));
System.out.println(" n1 is not equals to n2 :"+(n1!=n2));
        }

}
```

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

```
package assignmet_4_Operators;
import java.util.Scanner;
public class LogicalOperators {

        public static void main(String[] args) {
                // TODO Auto-generated method stub
Scanner scanner=new Scanner(System.in);
System.out.println("enter a number : ");
int num1=scanner.nextInt();
System.out.println("enter a number : ");
int num2=scanner.nextInt();

// && operator -> both condtion should be true
System.out.println(" checking && operator : "+(num1>num2 && num1>=num2));
// || operator  -> either one of the condition is true
System.out.println(" checking && operator : "+(num1>num2 || num1>=num2));
// logical not -> true -.false ,false->true for the condition
```

```
System.out.println(" checking && operator : "+(!(num1>=num2)));
	}

}
```

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

```
package assignmet_4_Operators;

import java.util.Scanner;

public class AssignmentOperator {
// assigment operator is used to assign values to variables
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner scanner = new Scanner(System.in);
		System.out.println("enter name : ");
		String name = scanner.next();// value assigned to name var by the user
		System.out.println(" Name : " + name);
	}

}
```

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

```
package assignmet_4_Operators;

import java.util.Scanner;
```

```
public class CheckingAges {
// checking ages of students
	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner scanner = new Scanner(System.in);
		System.out.println("enter age : ");
		int age = scanner.nextInt();
		String res = age > 18 ? "he is major " : "he is minor ";
		System.out.println(res);
	}

}
```

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

```
package assignmet_4_Operators;

import java.util.Scanner;

public class CheckingEvenOrOdd {

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

		// TODO Auto-generated method stub
		Scanner scanner = new Scanner(System.in);
		System.out.println("enter age : ");
		int num = scanner.nextInt();
```

```
		String res = num % 2 == 0 ? "number is even " : "number is odd ";
		System.out.println(res);



	}
}
```

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

```
package assignmet_4_Operators;

import java.util.Scanner;

public class Checking {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner scanner = new Scanner(System.in);
		System.out.println("enter age : ");
		int num = scanner.nextInt();
		int num1 = 100, num2 = 200;
		String result = num > num1 && num > num2 ? "true " : "false";
		System.out.println(result);

	}

}
```

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

```
package assignmet_4_Operators;


public class CheckTwoNumbers {


	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int num1 = 100, num2 = 200;
		String reslut1 = num1 == num2 ? "yes" : "no";
		System.out.println("bot numbers are equal or not : ");
	}


}
```