ASSIGNMENT OPERATOR

1. Write your own program using arithmetic operators.

```
import java.util.Scanner;

public class Arithmatic {
    public static void main(String[] args) {
        Scanner c = new Scanner(System.in);
        System.out.println("Enter the two numbers");
        int num = c.nextInt();
        int num0 = c.nextInt();
        System.out.println("Addition:"+(num + num0));
        System.out.println("Subraction:"+(num-num0));
        System.out.println("Multiply:"+(num * num0));
        System.out.println("Modulo:"+(num % num0));
        System.out.println("Division:"+(num / num0));
    }
}
```

Output

```
Enter the two numbers
34
9
Addition:43
Subraction:25
Multiply:306
Modulo:7
Division:3
```

2. Write your own program using arithmetic assignment operators.

```
import java.util.Scanner;

public class Arith_as {
    public static void main(String[] args) {
    int a=10,b=20;
        System.out.println(a=b);//10=20//20
        System.out.println(a+=b);//10=10+20=40
        System.out.println(a-=b);//10=10-20=20
        System.out.println(a*=b);//10=10*20=400
        System.out.println(a/=b);//10=10/20
        System.out.println(a%=b);//0
        }
        }
```

Output

```
20
40
20
400
20
0
```

3. Write your own program using relational operators.

```
import java.util.Scanner;

public class Relation {
    public static void main(String[] args) {
        Scanner dd = new Scanner(System.in);
        System.out.println("Enter A value: ");
        int a = dd.nextInt();
        System.out.println("Enter B value");
        int b = dd.nextInt();
        System.out.println("A is Greater then b:
"+(a>b));
        System.out.println("A is Lesser then b:
"+(a<b));
        System.out.println("A is Greater then equal
to b: "+(a>=b));
        System.out.println("A is Lesser then equal to
b: "+(a<=b));
        System.out.println("A is Equal to b:
"+(a==b));
        System.out.println("A is Not equal to b:
"+(a!=b));
    }

}
```

Output

```
Enter A value:
6
Enter B value
7
A is Greater then b: false
A is Lesser then b: true
A is Greater then equal to b: false
A is Lesser then equal to b: true
```

```
A is Equal to b: false
A is Not equal to b: true
```

4. Write your own program using logical operators.

```
import java.util.Scanner;

public class Logical {
    public static void main(String[] args) {
        boolean bool1 = true, bool2 = false;

        System.out.println("bool1 && bool2 = " +
(bool1 && bool2));

        System.out.println("bool1 || bool2 = " +
(bool1 | bool2));

        System.out.println("!(bool1 && bool2) = " +
!(bool1 && bool2));

    }
}
```

Output:

```
bool1 && bool2 = false
bool1 || bool2 = true
!(bool1 && bool2) = true
```

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

```
import java.util.Scanner;

public class Assign_Opp {
    public static void main(String[] args) {
        int modulo = 0, add = 0, mul = 0, sub = 0;
        float div = 0;
        Scanner scan = new Scanner(System.in);
        System.out.println("enter five number : ");
        int num1 = scan.nextInt();
        int num2 = scan.nextInt();
        int num3 = scan.nextInt();
        int num4 = scan.nextInt();
        int num5 = scan.nextInt();
```

```
            add = num1 += 5; // 4+5
            sub = num2 -= 5; // 3-5
            mul = num3 *= 5; // 5*5
            div = num4 /= 5; // 6/5
            modulo = num5 %= 5; // 7%5
            System.out.println(" addition + " + add);
            System.out.println(" subtraction - " + sub);
            System.out.println(" multiplication * " +
mul);
            System.out.println(" division / " + div);
            System.out.println(" modulo % " + modulo);
      }
}
```

Output

```
enter five number :
4
3
5
6
7
 addition + 9
 subtraction - -2
 multiplication * 25
 division / 1.0
 modulo % 2
```

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

```
import java.util.Scanner;

public class AgeMon {

      public static void main(String[] args) {
            Scanner e = new Scanner(System.in);
            System.out.println("Enter the Age");
            int Age = e.nextInt();
            if(Age>=18)
            {
                  System.out.println("You are eligable");
            }else {
                  System.out.println("Sorry! you under
'18'");
            }
```

```
    }
```

Output

```
Enter the Age
17
Sorry! you under '18'
```

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

```
public static void main(String[] args) {
        Scanner e = new Scanner(System.in);
        System.out.println("Enter the Number");
        int num = e.nextInt();
        if (num % 2 == 0) {
            System.out.println("Even number");
        } else {
            System.out.println("Not a even number");
        }
    }
```

Output

```
Enter the Number
5
Not a even number
```

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

```
import java.util.Scanner;

public class AgeMon {

    public static void main(String[] args) {
        Scanner e = new Scanner(System.in);
        System.out.println("Enter the Number");
        int num = e.nextInt();
        if (num >= 100 && num <= 200) {
            System.out.println("the number is
between the 100 to 200 ");
        } else {
            System.out.println("Invalid");
        }
```

```
    }

}
```

Output

```
Enter the Number
105
the number is between the 100 to 200
```

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

```
import java.util.Scanner;

public class Neither {
    public static void main(String[] args) {
        Scanner type = new Scanner(System.in);
        System.out.println("Enter the value");
        int i = type.nextInt();
        System.out.println("Enter the value");
        int j = type.nextInt();
        if(i==j) {
            System.out.println("Both are same");
        }else {
            System.out.println("Both are
different");
        }
    }

}
```

Output

```
Enter the value
55
Enter the value
55
Both are same
```