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Tugas 3

1. Percobaan 10 : Unary operator 1 – Increment Decrement

```
C:\Users\nadaf\Documents\PrakPBO\Pertemuan1\Prak
Nilai sbelum increment-decrement
a = 1b = 9
Nilai setelah increment-decrement
a = 2b = 8

C:\Users\nadaf\Documents\PrakPBO\Pertemuan1\Prak
```

2. Percobaan 11 : Unary operator 2 – Complement

```
C:\Users\nadaf\Documents\PrakPBO\Pertemuan1\Pr
Hasil operasi~: -8

C:\Users\nadaf\Documents\PrakPBO\Pertemuan1\Pr
```

3. Percobaan 12 : Unary operator 3 – Type Cast

```
Implicit Widening conversions:
------------------------------
byte to short:   -> 126
short to int:    -> 126
int to long:     -> 126
long to float:   -> 126.0
float to double:         -> 126.0

Explicit Widening conversions:
------------------------------
Cast byte to char:       -> ~
Cast short to char:      -> ~

Explicit Narrowing conversions:
-------------------------------
double to float: -> 150.23425
float to long: -> 150
long to int: -> 150
int to short: -> 150
short to byte: -> -106
```

4. Percobaan 13 : Arithmetic operator

```
Integer Division - result truncated;
------------------------------------
        10 / 3          = 3
        10 / -3         = -3
        -10 / 3         = -3

Floating-point Division by 0:
-----------------------------
        10.34 / 0       = Infinity
        -10.34 / 0      = -Infinity
        10.34 / -0      = Infinity
        0.0 / 0         = NaN
        0.0 / -0        = NaN

Modulo operations:
------------------
        5 % 3   = 2
        -5 % 3          = -2
        5 % -3          = 2
        5.0 % 3         = 2.0
        5.0 % -3        = 2.0
        -5.0 % 3        = -2.0
        5.0 % 0         = NaN
```

5. Percobaan 14 : Shift operator

```
C:\Users\nadaf\Document
x=7
x>>2=1
x<<1=14
x>>>1=3
```

6. Percobaan 15 : Comparison operator 1 – Relational

```
Relatinal Operators:
--------------------
        Less than: 5 < 6                true
        Less than or equal to: 5 <= 5           true
        Greater than: 5 > 6             false
        Greater than or equal to: 5 >= 5                true
        Less than: -0.0 < 0.0           false
        Less than or equal to: -0.0 <= 0.0              false
        Greater than: 5 < NaN           false
```

7. Percobaan 16 : Comparison operator 2 – Equality

```
Equality Operators:
--------------------

        Equals: 5 == 5.0                true
        Not Equal: 5 != 5.0             false
        Equals: arr1 == arr2            false[different array objects]
        Equals: arr1 == arr3            true[ref to same array object]
        Not Equal: arr1 != arr2                 true
        Not Equal: arr1 != arr3                 true
        Equals: s1 == s2                true[same literal]
        Equals: s1 == s3                true[same object reference]
        Equals: s1 == s4                false[s4 is new object]
```