Name : Sum, Sub, Multi, Div, Modulus of 2 variables in JAVA.

Source Code :

```java
Operator.java > ...
You, 3 weeks ago | 1 author (You)
1  public class Operator {
2      public static void main(String[] args){
3          int a = 5, b = 10;
4          int sum = a + b;
5          int sub = a - b;
6          int multi = a * b;
7          double div = (double)a / b;
8          int mod = a % b;
9
10         System.out.println("sum = " + sum);
11         System.out.println("sub = " + sub);
12         System.out.println("multi = " + multi);
13         System.out.println("div = " + div);
14         System.out.println("mod = " + mod);
15
16     }
17 }
18
```

Output :

```
PS E:\java projects> cd "e:\java projects\" ; if ($?) { javac Operator.java } ; if ($?) { java Operator }
sum = 15
sub = -5
multi = 50
div = 0.5
mod = 5
PS E:\java projects>
```

Name : Using different types of variable in JAVA.

Source Code :

```java
Variables.java > ...
You, 4 weeks ago | 1 author (You)
1  public class Variables {
2      public static void main(String[] args){
3          String university = "Port City International University";
4
5          System.out.println(university);
6
7          int num = 23;
8          System.out.println("int number is "+num);
9
10         char character='w';
11         System.out.println("character is " +character);
12
13         float FoatValue = 34.78f;
14         System.out.println("the float value is " +FoatValue);
15
16         boolean value = true;
17         System.out.println("the boolean value is " +value);
18     }
19  }
20
```

Output :

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    GITLENS    COMMENTS

PS E:\java projects> cd "e:\java projects\" ; if ($?) { javac Variables.java } ; if ($?) { java Variables }
Port City International University
int number is 23
character is w
the float value is 34.78
the boolean value is true
PS E:\java projects>
```

Name : Using variables and operators in JAVA.

Source Code :

```java
public class Variables2 {
    public static void main(String[] args){
        String firstName = "Emtiaz ";
        String lastName = "Chowdhury";
        String fullName = firstName + lastName;

        System.out.println(fullName);

        int x = 8;
        int y = 4;

        System.out.println("sum = " +(x+y));
        System.out.println("sub = " +(x-y));
        System.out.println("multi = " +(x*y));
        System.out.println("div = " +(x/y));
        System.out.println("mod = " +(x%y));
    }
}
```

Output :

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    GITLENS    COMMENTS

PS E:\java projects> cd "e:\java projects\" ; if ($?) { javac Variables2.java } ; if ($?) { java Variables2 }
Emtiaz Chowdhury
sum = 12
sub = 4
multi = 32
div = 2
mod = 0
PS E:\java projects>
```

Name : Auto and manual type conversion in JAVA.

Source Code :

```java
public class typecasting {
    public static void main(String[] args){
        int n = 10;
        long nl = n;
        float nf = nl;
        double nd = nf;

        System.out.println("int n = " + n);
        System.out.println("long nl = " + nl);
        System.out.println("float nf = " + nf);
        System.out.println("double nd = " + nd);

        nf = (float)nd;
        nl = (long)nf;
        n = (int)nl;

        System.out.println();

        System.out.println("int n = " + n);
        System.out.println("long nl = " + nl);
        System.out.println("float nf = " + nf);
        System.out.println("double nd = " + nd);
    }
}
```

Output :

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    GITLENS    COMMENTS

PS E:\java projects> cd "e:\java projects\" ; if ($?) { javac typecasting.java } ; if ($?) { java typecasting }
int n = 10
long nl = 10
float nf = 10.0
double nd = 10.0

int n = 10
long nl = 10
float nf = 10.0
double nd = 10.0
PS E:\java projects>
```

Name : Pre increment and post increment in java.

Source Code :

```java
public class increment {
    public static void main(String[] args){
        int n = 5;
        n++;

        System.out.println(x:"post increment");
        System.out.println("n = " + n);
        System.out.println("n = " + n++);
        System.out.println("n = " + n);

        System.out.println();

        ++n;
        System.out.println(x:"pre increment");
        System.out.println("n = " + n);
        System.out.println("n = " + (++n));
        System.out.println("n = " + n);

    }
}
```

Output :

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    GITLENS    COMMENTS

PS E:\java projects> cd "e:\java projects\" ; if ($?) { javac increment.java } ; if ($?) { java increment }
post increment
n = 6
n = 6
n = 7

pre increment
n = 8
n = 9
n = 9
PS E:\java projects>
```

Name : pre decrement and post decrement in JAVA.

Source Code :

```java
decrement.java > ...
1   public class decrement {
2       public static void main(String[] args) {
3           int n = 5;
4           n--;
5
6           System.out.println(x:"pre decrement");
7           System.out.println("n = " + n);
8           System.out.println("n = " + (--n));
9           System.out.println("n = " + n);
10
11          System.out.println();
12
13          --n;
14          System.out.println(x:"post decrement");
15          System.out.println("n = " + n);
16          System.out.println("n = " + (n--));
17          System.out.println("n = " + n);
18      }
19
20  }
21
```

Output :

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS    GITLENS    COMMENTS

PS E:\java projects> cd "e:\java projects\" ; if ($?) { javac decrement.java } ; if ($?) { java decrement }
pre decrement
n = 4
n = 3
n = 3

post decrement
n = 2
n = 2
n = 1
PS E:\java projects>
```

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