
OOPM - MOCK PRACTICAL

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D6AD / 47.

AIM: Write a JAVA program to demonstrate the concept of arithmetic operators.

Program:

```
import java.lang.*;
import java.util.*;
public class ArithmeticOperators {
    public static void main(String[] args) {

        int a = 12, b = 5; //declaring,initializing the variables.

        System.out.println("a + b = " + (a + b)); // addition operator
        System.out.println("a - b = " + (a - b)); // subtraction operator
        System.out.println("a * b = " + (a * b)); // multiplication operator
        System.out.println("a / b = " + (a / b)); // division operator
        System.out.println("a % b = " + (a % b)); // modulo operator
    }
}
```

Writeup:

Here, ~~we~~ I have imported java.lang package and java.util package to use the basic operations and functions in java.

I created a parent class named `#` ArithmeticOperators in which I created a public static void main method as the entry point of the code.

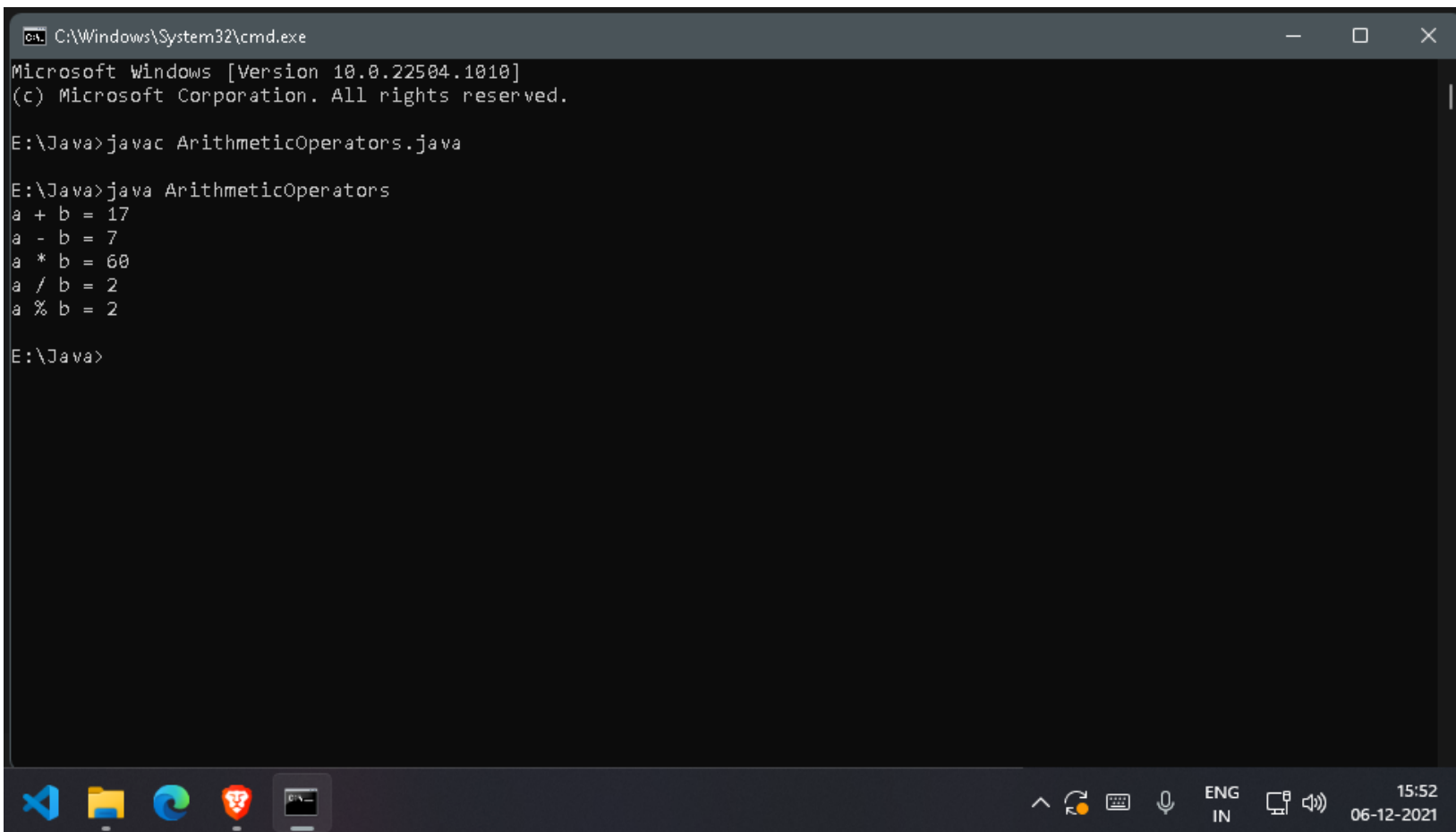
Then, we declared and initialized two variables `a` & `b`, and further we implemented the Arithmetic Operators on these variables

and printed out the answer of those operators on the output screen.

In the above code, we have implemented

- Addition operator.
- Subtraction operator.
- Multiplication operator.
- Division operator.
- and
- Module operator.

OUTPUT:



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.22504.1010]
(c) Microsoft Corporation. All rights reserved.

E:\Java>javac ArithmeticOperators.java

E:\Java>java ArithmeticOperators
a + b = 17
a - b = 7
a * b = 60
a / b = 2
a % b = 2

E:\Java>
```

The screenshot shows a Windows Command Prompt window with a dark background. The title bar at the top reads "C:\Windows\System32\cmd.exe". The window contains the following text: "Microsoft Windows [Version 10.0.22504.1010] (c) Microsoft Corporation. All rights reserved." followed by the command prompt "E:\Java>". The user has entered "javac ArithmeticOperators.java" and then "java ArithmeticOperators". The output of the second command is displayed: "a + b = 17", "a - b = 7", "a * b = 60", "a / b = 2", and "a % b = 2". The prompt "E:\Java>" is shown again at the bottom. The taskbar at the bottom of the screen shows several icons: a blue 'X' icon, a yellow folder icon, a blue circular icon, a red shield icon, and a small window icon. On the right side of the taskbar, there are icons for a search bar, a refresh button, a keyboard icon, a microphone icon, and a language indicator showing "ENG IN". The system clock in the bottom right corner displays "15:52" and "06-12-2021".