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Branch - CBA , Batch - 31

OOP Exercise 3

Problem : Create an arithmetic calculator application which input 2 numbers and generate output of all the arithmetic operations.

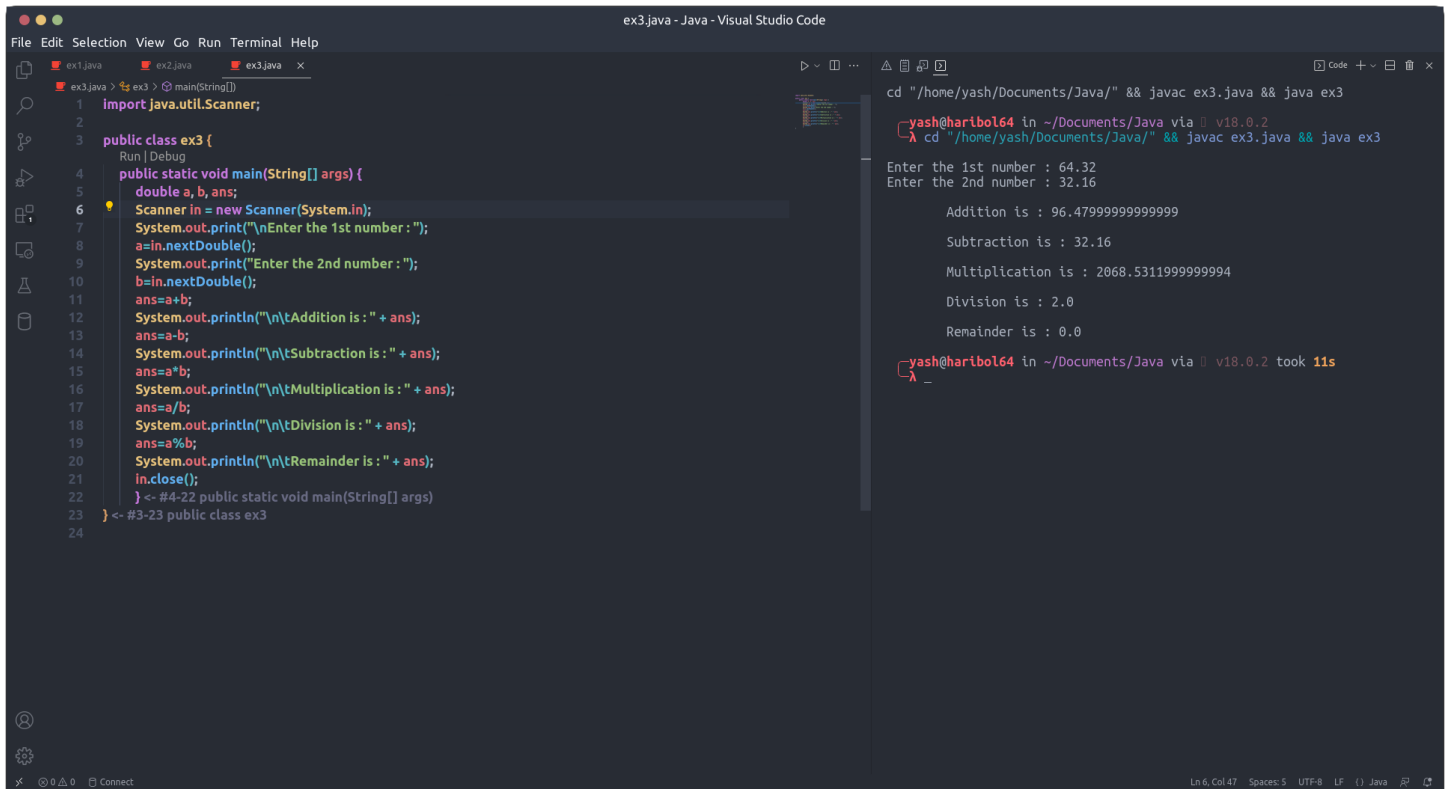
Code :

```
import java.util.Scanner;

public class ex3 {
    public static void main(String[] args) {
        double a, b, ans;
        Scanner in = new Scanner(System.in);
        System.out.print("\nEnter the 1st number : ");
        a=in.nextDouble();
        System.out.print("Enter the 2nd number : ");
        b=in.nextDouble();
        ans=a+b;
        System.out.println("\n\tAddition is : " + ans);
        ans=a-b;
        System.out.println("\n\tSubtraction is : " + ans);
        ans=a*b;
        System.out.println("\n\tMultiplication is : " + ans);
        ans=a/b;
        System.out.println("\n\tDivision is : " + ans);
        ans=a%b;
        System.out.println("\n\tRemainder is : " + ans);
        in.close();
    }
}
```

Output :

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The screenshot displays the Visual Studio Code editor with a Java file named `ex3.java` open. The code defines a `public class ex3` with a `main` method that uses `Scanner` to take two double inputs from the user and performs addition, subtraction, multiplication, division, and remainder calculations. The output window on the right shows the program's execution, including the prompts for numbers, the calculated results, and the execution time of 11 seconds.

```
ex3.java - Java - Visual Studio Code
File Edit Selection View Go Run Terminal Help
ex3.java ex2.java ex3.java
ex3.java ex3 > main(String[])
1 import java.util.Scanner;
2
3 public class ex3 {
4     public static void main(String[] args) {
5         double a, b, ans;
6         Scanner in = new Scanner(System.in);
7         System.out.println("\nEnter the 1st number:");
8         a=in.nextDouble();
9         System.out.println("\nEnter the 2nd number:");
10        b=in.nextDouble();
11        ans=a+b;
12        System.out.println("\n\tAddition is : " + ans);
13        ans=a-b;
14        System.out.println("\n\tSubtraction is : " + ans);
15        ans=a*b;
16        System.out.println("\n\tMultiplication is : " + ans);
17        ans=a/b;
18        System.out.println("\n\tDivision is : " + ans);
19        ans=a%b;
20        System.out.println("\n\tRemainder is : " + ans);
21        in.close();
22    } <- #4-22 public static void main(String[] args)
23 } <- #3-23 public class ex3
24
```

```
cd "/home/yash/Documents/Java/" && javac ex3.java && java ex3
yash@haribol64 in ~/Documents/Java via v18.0.2
λ cd "/home/yash/Documents/Java/" && javac ex3.java && java ex3
Enter the 1st number : 64.32
Enter the 2nd number : 32.16

Addition is : 96.47999999999999
Subtraction is : 32.16
Multiplication is : 2068.5311999999994
Division is : 2.0
Remainder is : 0.0

yash@haribol64 in ~/Documents/Java via v18.0.2 took 11s
λ _
```

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