

Day 5 - Code Java Smart

Rounding Off

Rounding off means reducing the number of decimal places in a floating-point number while keeping its value as close as possible to the original. It helps in simplifying numbers for readability and precision control.

For example:

- Original: 12.34567
- Rounded to 2 decimal places: 12.35

Floating-point numbers are decimal values, which can be rounded to n number of decimal places. In Java, rounding off can be done using methods like **format()**, **DecimalFormat**, or **mathematical operations**.

Program

Using format Method

Syntax : **System.out.format("%.df" , number);**

Parameters: The **first** parameter accepts **d digits to round off** the number, the **second** argument accepts **a number that is to be rounded**.

```
class Main {  
    public static void main(String[] args) {  
        double number = 3.141341435;  
        System.out.format("%.2f", number);  
        // Rounding number to 2 decimal places  
        // using format method  
    }  
}
```