

Assignment 01

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Assignment-1: Java Basics

- Topics Covered:
 - Variables and Data Types
 - User Input using Scanner
 - Operators
 - next() vs nextLine()
- No control statements or loops

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Objective

To build strong fundamentals and coder thinking.

Level 1 – Question 1

Write a Java program to:

- Read an integer from the user
- Print the same value

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Sample Output

You entered: 10

Level 1 – Question 2

Write a Java program to:

- Read two integers
- Display their sum

Level 1 – Question 3

Write a Java program to calculate the area of a rectangle.

- Read length and width from the user
- Display the area

Level 2 – Question 4

Write a Java program to:

- Read two integers
- Perform addition, subtraction, multiplication, division, and modulus

Level 2 – Question 5

Write a Java program to:

- Read two integers
- Show integer division result
- Show decimal division result using double

Level 2 – Question 6

Write a Java program to demonstrate:

- Pre-increment
- Post-increment
- Pre-decrement
- Post-decrement

Level 3 – Question 7

Write a Java program to:

- Read a person's full name
- Display it correctly

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Hint

Use `nextLine()`.

Level 3 – Question 8

Write a Java program to:

- Read age (integer)
- Read full name (string)
- Display both correctly

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- Read age (integer)
- Read full name (string)
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Warning

Handle the Scanner buffer properly.

Level 4 – Question 9

Write a Java program to:

- Read two integers
- Swap them without using a third variable

Level 4 – Question 10

Write a Java program to evaluate:

- `result = a + b * c`
- `result = (a + b) * c`

Level 4 – Question 10

Write a Java program to evaluate:

- `result = a + b * c`
- `result = (a + b) * c`

Explain the difference in output.

Level 5 – Question 11

Write a Java program to:

- Read length in meters
- Convert it to centimeters and millimeters

Level 5 – Question 12

Write a Java program to:

- Read an integer
- Apply $+=$, $-=$, $*=$, $/=$ operators
- Display result after each operation

Level 5 – Question 13

Write a Java program to:

- Read first name using `next()`
- Read address using `nextLine()`
- Display both correctly

Bonus Question

Write a Java program to evaluate the expression:

$$x++ + ++y * z--$$

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Write a Java program to evaluate the expression:

$$x++ + ++y * z--$$

Task

Trace the output step by step.

Thank You!

Stay Connected

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