
System Requirements Specification Index

For

Arithmetic Operators

Version 1.0

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USE CASE DESCRIPTION

System Requirements Specification

1 PROJECT ABSTRACT

Create a Java program that demonstrates the use of arithmetic operators: +, -, *, /, and %. You will use two variables of different types (int and double), perform basic arithmetic operations on them, and print the results.

2 ASSESSMENT TASKS

1. Declare 2 variables:

- A variable named **a** of **int** datatype, initialized with the value **10**.
- A variable named **b** of **double** datatype, initialized with the value **20.5**.

2. Perform Arithmetic Operations:

Perform the following arithmetic operations on the declared variables:

- **Addition:**
 - 1) Add **a** and **b** after casting **b** to an integer.
 - 2) Store the result in a variable named **sum** of **int** datatype.
- **Subtraction:**
 - 1) Subtract **a** from **b**.
 - 2) Store the result in a variable named **difference** of **double** datatype.
- **Multiplication:**
 - 1) Multiply **a** and **b** after casting **b** to an integer.
 - 2) Store the result in a variable named **product** of **int** datatype.
- **Division:**
 - 1) Divide **b** by **a**.
 - 2) Store the result in a variable named **quotient** of **double** datatype.
- **Modulus (remainder):**
 - 1) Find the remainder of dividing **a** by **3**.
 - 2) Store the result in a variable named **remainder** of **int** datatype.

3. Print the Results:

- Print the results of the arithmetic operations i.e, **sum**, **difference**, **product**, **quotient** and **remainder** with appropriate labels in separate lines as shown in the expected output.

4. Expected Output:

Sum: 30

Difference: 10.5

Product: 200

Quotient: 2.05

Remainder: 1

3 TEMPLATE CODE STRUCTURE

3.1 PACKAGE: COM.YAKSHA.ASSIGNMENT.ARITHMETICOPERATORSASSIGNMENT

Resources

Class/Interface	Description	Status
ArithmeticOperatorsAssignment (class)	<ul style="list-style-type: none">Main class containing the logic to perform arithmetic operations (+, -, *, /, %) on variables.	Need to be implemented.

4 EXECUTION STEPS TO FOLLOW

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) ☐ Terminal ☐New Terminal.
3. This editor Auto Saves the code.
4. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
5. To run your project use command:
sudo JAVA_HOME=\$JAVA_HOME /usr/share/maven/bin/mvn compile exec:java -Dexec.mainClass="com.yaksha.assignment.ArithmeticOperatorsAssignment"
***If it asks for the password, provide password : pass@word1**

6. To test your project test cases, use the command

sudo JAVA_HOME=\$JAVA_HOME /usr/share/maven/bin/mvn test

***If it asks for the password, provide password : pass@word1**