



Java Basics

Training Assignment

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RECORD OF CHANGES

No	Effective Date	Change Description	Reason	Reviewer	Approver
1	20/May/2020	Create a new assignment	Create new	DieuNT1	VinhNV

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CODE:	Assignment01_Opt1
TYPE:	Long
LOC:	N/A
DURATION:	90 MINUTES

Java Introduction

Objective

- Java Data Types, Java Operators, Java Input and Output, Java Expressions & Blocks.

Business needs

- TBD

Working requirements

- Working environment: Eclipse IDE.
- Delivery: Source code, deployment and testing, reviewing evident packaged in a compress archive.

Product architecture

- N/A

Technologies

The product implements one or more technology:

- Java basics

Stored Data

- N/A

Exercise 1:

Write a Java program to print the sum of two numbers.

Test Data:

74 + 36

Expected Output :

110

Exercise 2:

Write a Java program to print the result of the following operations.

Test Data:

a. $-5 + 8 * 6$

b. $(55+9) \% 9$

c. $20 + -3*5 / 8$

d. $5 + 15 / 3 * 2 - 8 \% 3$

Expected Output :

43

1

19

13

Exercise 3:

Write a Java program to multiply two binary numbers.

Input Data:

Input the first binary number: 10

Input the second binary number: 11

Expected Output

Product of two binary numbers: 110

Exercise 4:

Write a Java program that accepts two integer values from the user and return the larger values. However if the two values are the same, return 0 and return the smaller value if the two values have the same remainder when divided by 6.

Sample Output:

Input the first number : 12

Input the second number: 13

Result: 13

Exercise 5:

Write a Java program to takes the user for a distance (in meters) and the time was taken (as three numbers: hours, minutes, seconds), and display the speed, in meters per second, kilometers per hour and miles per hour (hint: 1 mile = 1609 meters).

Test Data

Input distance in meters: 2500

Input hour: 5

Input minutes: 56

Input seconds: 23

Expected Output :

Your speed in meters/second is 0.11691531

Your speed in km/h is 0.42089513

Your speed in miles/h is 0.26158804

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