

Lab Sheet 04

Instructions

- Create a folder in the desktop (i.e. UWU_CST_21XXX) to save your source code files.
 - Zip the main folder and upload it to the given link in the VLE course page each week.
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1. Write a Java program to find out that the first number entered by a user is divisible by the second number entered or not.
2. Write a Java program to display the relationship of two integers entered by a user using = or > or < sign.
3. Write a Java program using Nested-if statement to find the greater number among 3 numbers with the help of logical operators.
4. Write a Java program using Nested-if statement to find the greater number among 3 numbers without the help of logical operators.
5. Write a Java program to display the following grades for a given marks.

Mark	Grade
100-90	A
89-80	B
79-70	C
<70	D

6. Write a Java program to decide whether there is a profit or loss, when cost price (CP) and selling price (SP) of an item is given.
7. Calculate the fine for speeding in a town area as follows;
 - 500 rupees if the speed is from 81 to 90 kmph
 - 750 rupees if the speed is from 91 to 100 kmph
 - 1000 rupees if the speed is above 100 kmph

Write a Java program to calculate the fine when the speed is given from the keyboard as an integer input.

8. A man is paid at the hourly rate of Rs.50/-per hour for the first 30 hours worked in a week. Thereafter the overtime is paid at 1.5 times the hourly rate for the next 25 hours and 2 times the hourly rate for further hours worked. Input the number of hours worked in a week and print weekly wages using a C program.

9. Write a Java program to display the following comments for the grades entered by the user.

Grade	Comment
A	Excellent
B	Well Done
C	Good
D	You Pass
F	Better Try Again
Other	Invalid Grade

10. Write a Java program to create a simple calculator to calculate and display addition, subtraction, multiplication and division depending upon user's choice.

Get the user inputs as;

1. First number

2. Second number

3. An operator ('+' '-' '*' '/')