



Assignment #2



Shahzeb Naqvi • 22:13 (Edited 22:20)

100 points

Due 18 Jul, 21:59

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1. Take 4 integer variables for subjects. Print the user's total marks and percentage using string concatenation.

2.
Convert temperature from Fahrenheit to Celsius and Celsius to Fahrenheit using the formulas:

$$^{\circ}\text{F} = (^{\circ}\text{C} \times 9/5) + 32$$

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times 5/9$$

3.
Length and breadth of a rectangle are 5 and 7 respectively. Write a program to calculate the area of the rectangle using:

$$\text{Area} = \text{length} \times \text{breadth}$$



4.
Create an integer variable num = 7. Add 8 to it, divide the result by 3, take the modulus with 5, then multiply the result by 5 and store it in variable i. Display the final result.

5.
Create two integer variables a and b. Assign values and check:

If both conditions $a < 50$ and $a < b$ are true.

If at least one of them is true.

6.

Robert's marks in three subjects are 78, 45, and 62 (each out of 100).

Write a program to calculate:

Total marks

Percentage

Print his name, individual marks, total, and percentage.

7.

Write a program to swap the values of two integers using a temporary variable.

8.

Write a program that calculates the average of five given integers.

9.

Write a program to find the maximum number among three using ternary operators or simple math logic.

10. Write a program to calculate simple interest using the formula:

$$SI = (\text{Principal} \times \text{Rate} \times \text{Time}) / 100$$

11. Write a program that calculates the square and cube of a given number.

12. Convert total minutes (e.g., 130) into hours and remaining minutes.

13. Write a program to calculate the perimeter (circumference) of a circle using:

Perimeter = $2 \times \pi \times \text{radius}$

(Use dart:math for π)

14. Take a 3-digit number and calculate the sum of its individual digits.

15. Convert a given number of days (e.g., 17) into weeks and remaining days.

More questionss will be added on Monday.....best of luckkk!

Your work

Assigned

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