

Supplementary Series of Exercises N° : 01

Basic instructions

Exercise N° : 01

Write an algorithm that asks the user to enter two integers, then calculates and displays their sum and product.

Exercise N° : 02

Write an algorithm that asks the user to enter three integers, then calculates and displays their average.

Exercise N° : 03

Write an algorithm that asks the user to enter a length in centimeters, then converts it to inches and displays the conversion. (1 inch = 2.54 cm).

Exercise N° : 04

Write an algorithm that calculates and displays the total price of an order by asking the user to enter the unit price of a product and the quantity ordered. The total price can be calculated by multiplying the unit price by the quantity.

Exercise N° : 05

Write an algorithm that asks the user to enter a temperature in Celsius and then converts it to Fahrenheit. Use the formula $\text{Fahrenheit} = (\text{Celsius} * 9/5) + 32$ to perform the conversion.

Exercise N° : 06

Write an algorithm that asks the user to enter an integer, then displays the square of that number.

Exercise N° : 07

Write an algorithm that calculates and displays the perimeter and area of a circle. The user must enter the radius of the circle.

Exercise N° : 08

Write an algorithm that asks the user to enter two integers, then calculates the sum of their squares and displays the result.

Exercise N° : 09

Write an algorithm that asks the user to enter the departure time and arrival time (in hours and minutes, for example, 2 hours and 10 minutes) of a trip in the same day, then calculates and displays the trip duration without converting times to minutes.

Exercise N° : 10

Write an algorithm that asks the user to enter a positive real number, then calculates and displays its square and square root.