

1. Write an algorithm, Pseudocode and Flow Chart of addition of two number.
2. Write an algorithm, Pseudocode and Flow Chart of swap of two number.

3. Write an algorithm, Pseudocode and Flow Chart that accepts an employee's ID, total worked hours of a month and the amount he received per hour. Print the employee's ID and salary (with two decimal places) of a particular month.

Test Data :

Input the Employees ID: 342

Input the working hrs: 8

Salary amount/hr: 15000

Expected Output:

Employees ID = 342

Salary = US\$ 120000.00

4. Write an algorithm , Pseudocode, Flow Chart to calculate total price of an item where base price and gst(%) will be provided by user.

5. Write an algorithm , Pseudocode, Flow Chart that calculates the volume of a sphere. (Formula : $V = \frac{4}{3}\pi r^3$)

Expected Output :

Input the radius of the sphere : 2.56

The volume of sphere is 70.276237.

6. Write an algorithm , Pseudocode, Flow Chart that converts kilometers per hour to miles per hour. (1 KM = 0.621371 M)

Expected Output :

Input kilometers per hour: 15

9.320568 miles per hour

7. Write an algorithm , Pseudocode, Flow Chart that takes minutes as input, and display the total number of hours and minutes.

Expected Output :

Input minutes: 546

9 Hours, 6 Minutes

8. Write an algorithm , Pseudocode, Flow Chart to find the third angle of a triangle if two angles are given.

Expected Output :

Input two angles of triangle separated by comma : 50,70

Third angle of the triangle : 60

9 . Write an algorithm , Pseudocode, Flow Chart to convert specified days into years, weeks and days.

Note: Ignore leap year.

Test Data :

Number of days : 1329

Expected Output :

Years: 3

Weeks: 33

Days: 3

10. Write an algorithm , Pseudocode, Flow Chart to convert a given integer (in seconds) to hours, minutes and seconds.

Test Data :

Input seconds: 25300

Expected Output:

There are:

H:M:S - 7:1:40

11. Write an algorithm , Pseudocode, Flow Chart to calculate Compound Interest

Example Input

Enter principle (amount): 1200

Enter time: 2

Enter rate: 5.4

Output

Compound Interest = 1333.099243

Compound Interest formula

Formula to calculate compound interest annually is given by.

$$CI = P(1 + R/100)^T$$

12. Write an algorithm , Pseudocode, Flow Chart to calculate total average and percentage of five subjects

Example Input

Enter marks of five subjects: 95 76 85 90 89

Output

Total = 435

Average = 87

Percentage = 87.00