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CC1 1L

Problem Definition

1) The ABC Manufacturing Company plans to give a year-end bonus to each of its employees. Compute the bonus of an employee. Consider the following criteria: if the employee's monthly salary is less than 1,000, the bonus is 50% of the salary; for the employees with salaries greater than 1,000, the bonus is 1000. Print the name and the bonus of the employee.

Problem Ananlysis

Input: Name, Salary

Process: Multiplication, Addition

Output: Print name and the bonus of the employee.

Algorithm

1) Accept the name of the employee and he's salary as an input.

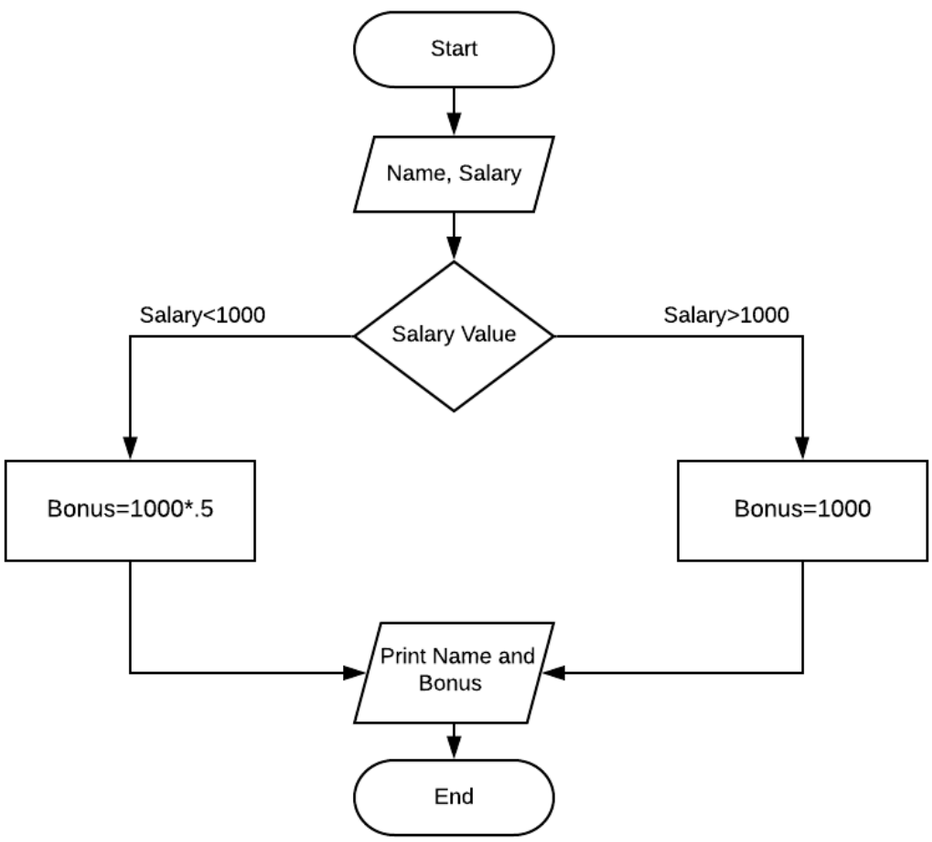
2) Compute the bonus of the employee with a salary less than Php1000 as Product=salary*.5

3) Compute the sum of the salary and the computed product of the bonus as Sum=product+salary.

4) Compute the sum of the employee with salary a greater than Php1000 as Sum=salary+bonus.

5) Print out the name and the bonus of the employee.

Flowchart



Problem Definition

2) Given two numbers x and y. Determine the Difference between x and y. If the difference is negative, compute the sum of x and y and store to R; if the difference is zero, compute the sum of twice x and twice y and store R; and if the difference is positive, compute the product of x and y and store R. Print out the values of x, y, and R.

Problem Analysis

Input: Two numbers x and y

Process: Addition, Multiplication

Output: Print out the values of x, y and R.

Algorithm

1) Accept 2 numbers as input x and y.

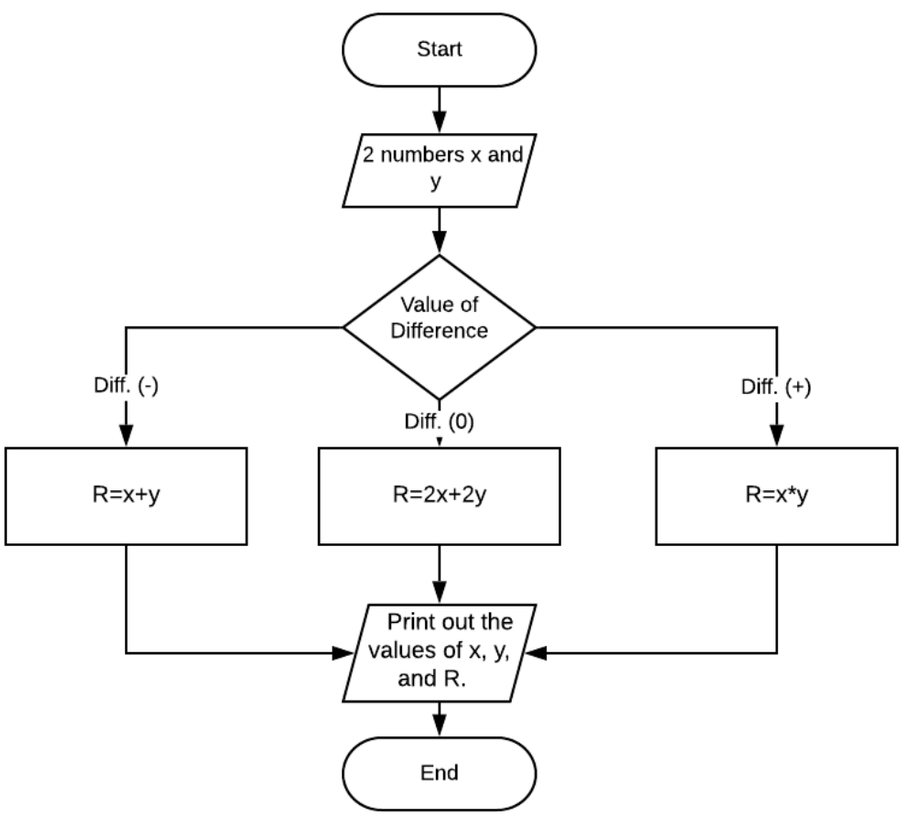
2) If negative, compute the sum of x and y and store to R.

3) if zero, compute the sum of twice x and twice y and store R.

4) If positive, compute the product of x and y and store R.

5) Print out the values of x, y, and R.

Flowchart



Problem Definition

3) The initial value of the radius of a circle is equal to one unit and each succeeding radius is one unit greater than the value before it. Compute the area of the circle starting with r=1 up to r=5, then print each radius and corresponding area.

Problem Analysis

Input: Radius=1, I PI=3.1416

Process: Multiplication

Output: Print each radius and corresponding area

Algorithm

1) Accept the radius and PI as input.

2) Compute the area of the circle r=1 as PI*R*R

3) Print out the value of R and sqaure of R.

4) Increment the value of R by 1.

5) Test if R is less than or equal to 5.

6) If its less than R, it will repeat the steps 2 to 5.

7) If its equal or greater than 5 the process will stop.

Flowchart