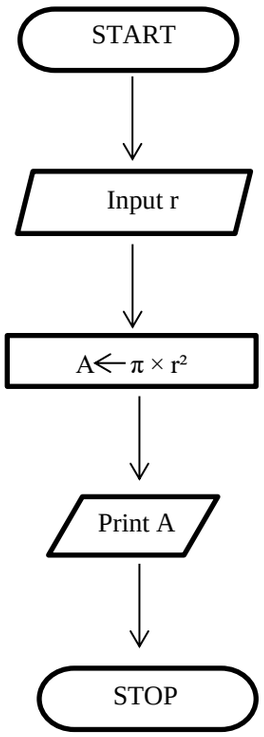
Name: Reimarc G. Corpuz Date: SEPT. 21, 2021

Course: BSCPE 2GF Schedule:

EXERCISES

1. Write a pseudocode/algorithm and draw a flowchart of the following:

   a. The radius of a circle is equal to one unit. Compute the corresponding area of the circle and print out the value of the radius and the area.

Pseudocode: • Input the radius of circle (one unit) • Calculate the area of a circle by multiplyng π into r^2 • Print area (A) Algorithym • Step 1: input r • Step 2: A ⟵ $\pi \times r^2$ • Step 3: Print A	

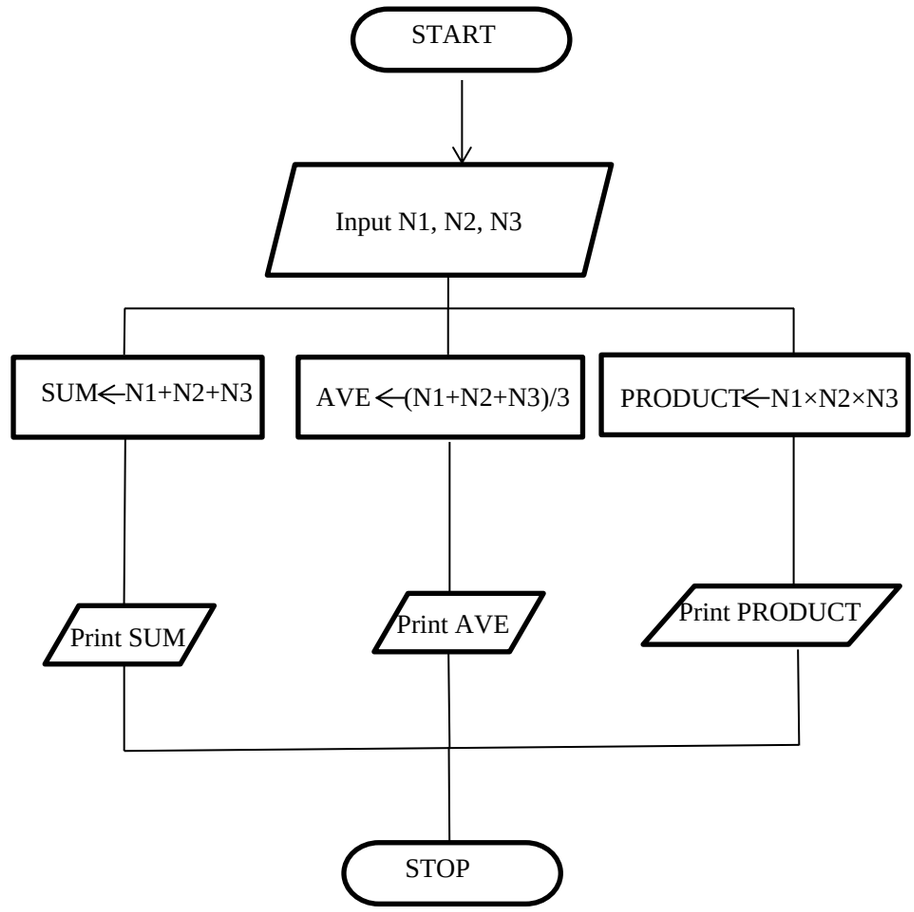
   b. Given three numbers A,B, and C. Compute and print out the sum, the average, and the product of these values.

Pseudocode: • Input three numbers • Add the three numbers to get the sum,		

multiply those three to get the product, and calculate the average by summing and dividing by 3
- Print the sum, average and the product

Algorithym

- Step 1: Input N1, N2, N3
- Step 2: SUM⟵ N1+N2+N3 AVERAGE⟵ (N1+N2+N3)/3 PRODUCT⟵ N1×N2×N3
- Step 3: Print SUM, AVERAGE, and PRODUCT



c. The ABC Manufacturing Company plans to give a year-end bonus to each of its employees. Compute the bonus of an employee and consider the following criteria: If the employee's monthly salary is less than 1,000.00 pesos, the bonus is 50% of the salary; for employees with salaries greater than 1,000.00 pesos, the bonus is 1,000.00. Print out the name and corresponding bonus of the employee.

Pseudocode:	
• Input the number of employee's monthly salary	

• Calculate the bonus by getting the 50% and or same amout of monthly salary of the employees. • Print the employee's name and its bonus Algorithym • Step 1: • Step 2: • Step 3:	

d. Given two numbers X and Y. Determine the difference between X and Y. If X-Y is negative, compute R=X+Y; if X-Y is zero, compute R=2X+2Y; and if X-Y is positive, compute R=X*Y. Print out the values of X,Y, and R.