



CHAPTER 5

BASICS OF PSEUDO CODE

Q1. Answer the following

i. What is Pseudocode?

Pseudocode is a detailed description of an algorithm without using syntax of a specific programming language.

ii. Write any four properties of Pseudocode.

- It can use general programming code statements
- It cannot be executed like a program code
- It explains an algorithm in a language close to a general program
- It does not have fixed code, but should be logical and understandable

iii. Name the Arithmetic operators used in Pseudocode. Give example of each.

+ for addition

- for subtraction

* for multiplication

/ for division

^ for exponentiation

iv. What is the difference between = and := symbols?

= is used for comparison for equality

:= is used for assigning a value to a variable

v. Name the Comparison operators used in Pseudocode. Give example of each.

= for comparison of equality

≠ for comparison of inequality

< for comparison of less than or not

> for comparison of greater than or not

≤ for comparison of less than or equal to or not

≥ for comparison of greater than or equal to or not

Q2. Write a Pseudocode that performs the following

i. Input the price of a printer. Give a discount of 50%. Calculate and print the final price.

BEGIN

INPUT " Enter price of a printer " , P

LET D ← P * 50 / 100

LET FP ← P - D

DISPLAY "Final Price =" , FP

END



ii. Show the product of three variables.

BEGIN

INPUT " Enter 3 numbers ", N1, N2, N3

LET $P \leftarrow (N1 * N2 * N3)$

DISPLAY "Product =", P

END

iii. Calculate and print the average of two numbers.

BEGIN

INPUT " Enter 2 numbers ", N1, N2

LET $AV \leftarrow (N1 + N2) / 2$

DISPLAY "Product =", P

END

iv. Give an example of Repeat .. Until

BEGIN

REPEAT

PRINT "Enter details of the student"

UNTIL All the students' details are taken

END

v. Give an example of Do.. While

BEGIN

LET M = 10

DO

PRINT " Countdown " , M

LET M = M - 1

WHILE M >= 1

END

