

Week 3 Tutorial

Pseudocode

- Pseudocode is an informal way of programming description that does not require any strict programming language syntax or underlying technology considerations.
- It is used for creating an outline or a rough draft of a program. Pseudocode summarizes a program's flow, but excludes underlying details.
- System designers write pseudocode to ensure that programmers understand a software project's requirements and align code accordingly.
- Pseudocode is not an actual programming language. So, it cannot be compiled into an executable program.

Examples

Start Program

Enter two numbers, A, B

Add the numbers together

Print Sum

End Program

IF student's grade is greater than or equal to 40

PRINT "passed"

ELSE

PRINT "failed"

ENDIF

FOR X = 1 to 10

PRINT X

Increment counter

END FOR

WHILE Population < Limit

Compute Population as Population + Births — Deaths

ENDWHILE

Questions

1. Write a program using **if else if** to print grades of students.

Condition: Below 40 is considered as fail, 40 -50 as third division, 50-60 as second division, 60- 80 as first division and 80 above distinction.

Also, handle the invalid marks case.

2. WAP to print the name of day for input number using Switch case. Also, handle invalid number case.
3. WAP to print all the even and odd number from 1 to 100 using while loop.
4. WAP to print the multiplication table for input number using for loop.
5. Research and write down pseudo code for question no. 1, 2, 3 and 4.