



## **Pseudocode**

- Carefully prepared pseudocode programs may be converted easily to corresponding C programs.
- Pseudocode consists only of action statementsthose that are executed when the program has been converted from pseudocode to C and is run in C. Definitions are not executable statements. They are messages to the compiler.
- Each variable should be listed and the purpose of each should be briefly mentioned at the beginning of the pseudocode program.



- 1. State your name
- State the date
  State the name of t
- State the name of the subroutine.
- Give a brief description of the function of the subroutine/program.
  State the names of the input variables, their types, and give a brief description for each.
- 6. State the names of the output variables, their types, and give a brief description for each.
- 2. Give a list of instructions with enough detail that someone can translate the pseudocode into a computer language such as C, C++, Java, etc. Note, your pseudocode should paraphrase your algorithm and not look identical to C code.
- Your pseudocode should be indented just like when you write your program. You should use {} or if/else/endif (for/endfor, while/endwhile, etc.) syntax to denote the start and end of blocks of statements.







**If-else statement** 

printf("Your grade is an A+\n); else if (score >= 95)

printf("Your grade is an A n");

else if (score >= 90) printf("Your grade is an A-\n"); else printf("Your grade is lower than an A-\n");

if (score == 100)



















## **Class Average Example**



- Problem statement: A class of ten students took a quiz. The grades (integers in the range 0 to 10) for this quiz are available to you. Determine the class average on the quiz.
- class average = (sum of grades / total students)

## Main algorithm: input each of the grades perform the averaging calculation print the result







## Class Average Example Using a Sentinel (Pseudo-code)

- If the counter is not equal to zero: Set the average to the total divided by the counter Print the average else
- Print "No grades were entered"

endif











