

PACE-Monmouth Computer Science

Objective:

1. Identify all **Inputs** and **Outputs** for the problem presented below
2. Identify any **constants** that might be required
3. Identify any **key formulas** required
4. Identify any “**placeholders**” needed to store temporary computations
5. Write a set of **pseudo-code** statements that will solve the problem

Problem Statement: Write a program to ask the user for the numerical grade they received on a test.

- If the grade is **90 or above** they receive an **A**, otherwise ...
- If the grade **between 80 and 89** they receive a **B**, otherwise ...
- If the grade is **between 70 and 79** they receive a **C**, otherwise ...
- If the grade is **between 65 and 69** they receive a **D**, otherwise ...
- If the grade is **below 65**, they receive an **F**

Initial Design: Use **Nested If ... Else** for your program design

Future Design: replace the nested If ... Else with a **Switch** statement

Inputs:

Outputs:

Constants:

Key Formulas:

Placeholders:

Pseudo-Code: