

## AP COMPUTER SCIENCE A – HOMEWORK #2

Write a class `Homework2` which does the following:

- 1) Initializes a student's course grade `double score` by using `arg[0]`.
  - a) The program should check if `arg[0]` is present, and if not, it should print out something like  
Usage:  
`java Homework2 score`  
and then return.
  - b) Next, the program should parse `arg[0]` using `score=Double.parseDouble(arg[0])` in a `try` block. If `arg[0]` does not represent a valid double, the program should catch the `NumberFormatException`, print out something like  
`arg[0] does not represent a valid double`  
and then return.
  - c) The program should also test that `score` satisfies  $0.0 \leq \text{score} \leq 100.0$ . If not, it should print out something like  
`score must satisfy 0.0 <= score <= 100.0`  
and then return.
- 2) Calculates the student's letter grade `char grade` (*i.e.*, A, B, C, D, or F) using `if`, `else if`, and `else`. You should assume that, *e.g.*, 79.5 rounds up to a B, *etc.*
- 3) Prints out the score and letter grade. The output of the code should look something like  
`score = 79.5`  
`grade = B`