

## Student Grade Calculator

### Algorithm:

1. Start
2. Input assignment score, midterm score, and final exam score
3. Compute weighted scores:
  - $\text{Assignment weighted} = \text{assignment} * 0.3$
  - $\text{midterm weighted} = \text{midterm} * 0.3$
  - $\text{final exam weighted} = \text{final exam} * 0.4$
4. Calculate total final grade:
  - $\text{Final grade} = \text{assignment weighted} + \text{midterm weighted} + \text{final exam weighted}$
5. Determine pass/fail status:
  - If final grade  $\geq 60$ , print "Pass"
  - Else, print "Fail"
6. Display final grade and status
7. End

### PSEUDOCODE:

START

INPUT assignment, midterm, final\_exam

assignment\_weighted = assignment \* 0.3

midterm\_weighted = midterm \* 0.3

final\_exam\_weighted = final\_exam \* 0.4

final\_grade = assignment\_weighted + midterm\_weighted + final\_exam\_weighted

PRINT "Final Grade:", final\_grade

IF final\_grade  $\geq 60$  THEN

PRINT "Status: Pass"

ELSE

PRINT "Status: Fail"

END IF

END

### Flowchart:

