**Structural Programming (2)**

**Sheet (1)**

A1: Solve Example

Total\_distance = 300

// student average speed {40} h

St\_speed = 40

St\_breaks = 2

Time\_take = Total\_distance / St\_speed

RETURN Time\_take + St\_breaks

A3: Solve

1. get average number of courses given

res\_avg = []

FOR each course in Courses

Sum = 0

Count = 0

FOR each num in course

Sum += num

Count++

ENDFOR

average = sum / count

res\_avg(course) = average

ENDFOR

RETURN res\_avg

2- Get the best course in based on highest average of courses given:

Highest\_avg = 0

FOR each course in Courses

Sum = 0

Count = 0

FOR each num in course

Sum += num

Count++

ENDFOR

average = sum / count

IF average > Highest\_avg THEN

Highest\_avg = average

ENDIF

ENDFOR

RETURN Highest\_avg

3- Identify the course , considering the lowest average:

Lowest\_avg = 0

Lowest\_avg\_course

FOR each course in Courses

Sum = 0

Count = 0

FOR each num in course

Sum += num

Count++

ENDFOR

average = sum / count

IF average < Loweset\_avg THEN

Loweset \_avg = average

Lowest\_avg\_course = course

ENDIF

ENDFOR

RETURN Lowest\_avg\_course