

prog8 - Abdulrahman Zaiter

EXAM_MAX \leftarrow 100.00 **EXAM_MIN** \leftarrow 0.00 **ID_MAX** \leftarrow 9999 **ID_MIN** \leftarrow 1111 **PASS_SCORE** \leftarrow 70 **examAvgSum** \leftarrow 0

printHeading()

readRd(studName, studId, exam1, exam2, exam3)

WHILE There is data DO

printRd(studName, studId, exam1, exam2, exam3)

IS (validData(studId, exam1, exam2, exam3)) ?

V

F

examAvg \leftarrow avg(exam1, exam2, exam3)
examCount \leftarrow **examCount** + 1
examAvgSum \leftarrow **examAvgSum** + **examAvg**

printInvalidDataMsg()

printAvgPassedOrFailed(**examAvg**)

readRd(studName, studId, exam1, exam2, exam3)

Is **examCount** > 0

V

F

avgMean \leftarrow meanOfAvg(**examAvgSum**, **examCount**)

printInvalidDataMsg()

printMeanOfAvg(**avgMean**)

output("< end >")

printHeading()

output("< ~~~< Stud Exam Report>~~~")
 output("Name", "Stud Id", "Exam 1", "Exam 2", "Exam 3", "AVG of Exams", "Passed/Failed")

readRd(studName, studId, exam1, exam2, exam3)

input(studName) input(studId) input(exam1) input(exam2) input(exam3)

avg(exam1, exam2, exam3)

return((exam1+exam2+exam3)/3)

printRd(studName, studId, exam1, exam2, exam3)

output(studName, studId, exam1, exam2, exam3)

validData(studId, exam1, exam2, exam3)

IS ((exam1 >= EXAM_MIN && exam1 <= EXAM_MAX) && (exam2 >= EXAM_MIN && exam2 <= EXAM_MAX) &&
(exam3 >= EXAM_MIN && exam3 <= EXAM_MAX) && (studId >= ID_MIN && studId <= ID_MAX)) ?

V

return true

F

return false

printAvgPassedOrFailed(examAvg)

Is (examAvg >= PASS_SCORE)?

V

F

output(examAvg, "PASSED")

output(examavg, "FAILED")

meanOfAvg(examAvgSum ,examCount)

return(examAvgSum / examCount)

printMeanOfAvg(avgMean)

output("Mean Of AVG = ", avgMean)

printInvalidDataMsg()

output("~~ Invalid data~~")

printNoValidMeanMsg()

output("There is no valid data to calculate the Mean of the AVG for it!")