



CS102/IT102 - Computer Programming 1

Programming Exercise 3

1st Semester 2023-2024

Design and implement in C the algorithm for a program that will get as input the name of the student and five pairs of integer values representing the five quizzes. Each pair of input values (e.g. 45 12) corresponds to the TOTAL NUMBER OF POINTS of a given quiz, i.e. 45 and the SCORE the student got in that quiz, i.e. 12. It should compute for the rate of each quiz, then the average rate of all the five quizzes. Output on the screen the pair of values inputted and the results of computation following the specified format shown below. Observe and follow the alignment and number formats in the sample run below. Submit the flowchart expressing your algorithm and the source code.

Please note that the input variables must be declared as integers. Also, please always write as comment at the start of your source code your NAME, BLOCK, the TITLE and DESCRIPTION of the program.

SAMPLE RUN of the PROGRAM:

```
Input name of student: Juan
```

```
Please input five pairs of integer values representing the total  
number of points and score of Juan's quizzes.
```

```
Input Quiz 1 : 45 12
```

```
Input Quiz 2 : 20 9
```

```
Input Quiz 3 : 30 24
```

```
Input Quiz 4 : 100 60
```

```
Input Quiz 5 : 35 20
```

QUIZ#	SCORE	TOTAL	RATE
1	12	45	26.67%
2	9	20	45.00%
3	24	30	80.00%
4	60	100	60.00%
5	20	35	57.14%

```
Quiz Average: 53.76%
```