SECJ1013-01&05 & SCSJ1013-01&05

20192020-01

Assignment 1 (5%)

Instruction. Answer all the questions.

Question 1:

Write a program that will read two floating point numbers (the first read into a variable called `first` and the second read into a variable called `second`) and then calls the function `swap` with the actual parameters `first` and `second`. The `swap` function having formal parameters `number1` and `number2` should swap the value of the two variables.

Sample Run:

```
Enter the first number
80
Enter the second number
70
You input the numbers as 80 and 70.
After swapping, the first number has the value of 70 which was the value of the  second number
The second number has the value of 80 which was the value of the first number
```

Question 2:

Write a program that will input miles travelled and hours spent in travel. The program will determine miles per hour. This calculation must be done in a function other than `main`; however, `main` will print the calculation. The function will thus have 3 parameters: `miles`, `hours`, and `milesPerHour`.

Sample Run:

```
Please input the miles traveled
475
Please input the hours traveled
8
Your speed is 59.38 miles per hour
```

Question 3:

Write a program that will determine a grade. The program should ask a number of assessments and the mark of each assessment. Notice that the range for mark is between 0 to 100. You need to find the sum and the average of the marks by using function (pass by reference may apply). Then the `main` function will determine the letter grade of that average based on a 10-point scale as listed below.

90–100	A
80–89	B
70–79	C
60–69	D
0–59	F

Sample Run:

```
Enter the number of assessments: 3
Enter mark of assessment 1 (between 1 – 100): 90
Enter mark of assessment 2 (between 1 – 100): 80
Enter mark of assessment 3 (between 1 – 100): 50
The grade is C
```