CSE 102

Homework #1

Due Date: February 24, 23:55

In this homework you will write simple programs to exercise with basic operators and input/output operations. Please do not forget that your program should work ***exactly*** as the example runs given below the part definitions.

PART I

Write a simple program that calculates the overall grade of the students. There are 3 midterms, 2 homeworks and 1 final exam. You will ask the user to enter the weight of each exam/homework and the grades taken by the student. Then you will calculate the last grade ***in a single expression*** and print the result.

Example run:

```
Please enter the 1. midterm weight: 15
Please enter the 2. midterm weight: 15
Please enter the 3. midterm weight: 15
Please enter the 1. homework weight: 10
Please enter the 2. homework weight: 5
Please enter the final exam weight: 40
Please enter the 1. midterm grade: 80
Please enter the 2. midterm grade: 70
Please enter the 3. midterm grade: 80
Please enter the 1. homework grade: 50
Please enter the 2. homework grade: 65
Please enter the final exam grade: 75
Your final grade is: 72.75
```

PART II

Write a program that calculates how many days the user has lived. You will ask the user to enter the current year, month and day and then his birthday. Then you will calculate the total days he has lived (assume that each month is 30 days and there is no leap year). Then you will ask the user about the time of another planet and calculate how old he would be if he were lived in that planet.

Example run:

```
Please enter the current date.
Year: 2016
Month: 2
Day:15
Please enter your birthdate.
Year: 1990
Month:10
Day: 30
You have lived 9235 days.
Please enter about the time of another planet:
How many hours is a day? 8
How many days is a month? 10
How many months is a year? 20
If you lived in a planet where a day is 8 hours, a month is 10 days and a year is 20 months: you were 138 years, 10 months and 5 days old.
```