Assignment #2

General Instructions. For this assignment, you will be writing 3 separate programs. They should be submitted as 3 different files using NYU Classes. The files should be named:

Lastname-Firstname-assign2-1.py
Lastname-Firstname-assign2-2.py
Lastname-Firstname-assign2-3.py

For example, if I were to submit the assignment, I would name my files:

Schonberg-Edith-assign2-1.py
Schonberg-Edith-assign2-2.py
Schonberg-Edith-assign2-3.py

You must add comments to each program to get full credit. The beginning comment should explain what the program does, assuming the reader is not familiar with the assignment. The beginning comment should also include the assignment number and question number (e.g., assignment2, part 3), your name, the date, and your class section. This will prevent confusion.

1. Bibliography (6 points).

Write a program to print the following 3 bibliography items exactly as they appear below. The purpose of this assignment is to practice printing strings with control characters. So try to use as many control characters (\n, \t, \", \', \) as you can within reason. You must use all five types of control characters to get full credit.

Hints: If a citation goes to the next line, this next line begins with a tab (\t). There must be a blank line between each item.

Melville, Herman. “Hawthorne and His Moses.”
   In ‘The Norton Anthology of American Literature,’


Stewart, James. ‘Single Variable Calculus’, Brooks\cole

Extra credit (1 point). Find and add another citation as a fourth item in the bibliography.
2. **Personal Budget (8 points).**

If my income is $1500 a month, and I want to allocate 30% to rent and 25% to food each month, then I can spend $450 on rent, and $375 on food. I will have $675 left. Write a program that generalizes this calculation. Your inputs should be your monthly rent, what percent of this you want to spend on rent, and what percent you want to spend on food. The output should be how much money you can spend on rent, how much money you can spend on food, and how much money you have left.

For example, if my inputs are:

```
Enter monthly income: 1500
Enter percent for rent: 30
Enter percent for food: 25
```

The output should look something like:

```
Monthly income: 1500
Rent (30 percent): 450
Food (25 percent): 375
Other (45 percent): 675
```

**Hint:** \[ \text{rent} = \left(\frac{\text{rent\_percent}}{100}\right) \times \text{monthly\_income} \]

3. **Flying to Paris (6 points).**

Paris is 6 hours ahead of New York. If it is 1 o’clock in New York, it is 7 o’clock in Paris. Write a program that tells you what time you land in Paris, given a New York departure time and delay time. Assume the flight time is 7 hours. Your program should use the mod (%) operator.

**Assumptions:** Use a 12-hour clock (not a 24-hour clock). Do not worry about AM or PM. Also, you can assume that 0 o’clock is the same as 12 o’clock.

Sample input:

```
Enter New York departure time (o’clock): 10
Enter delay (hours): 2
```

Sample output:

```
You will arrive in Paris at 1 o’clock, Paris time.
```