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## Programming Assignment 2-1

### 1. Problem Definition

- a. A program that asks a user the number of females and males in their class, respectively. Then gives the user and output of: the total number of students in the class, the number of male and female students in the class, and the percentage of male and female students in the class.

### 2. Input/Output

- a. Input: an integer value of the number of male and female students in the class.
- b. Output: the total number of students in class, the number of males and females in the class, and the percentage of male and female students in the class.

```
Number of Males in class: 40
Number of Females in class: 60
The total number of students:      100
The Number of Males and Females:   40      60
The Percentage of Males and Females: 40.00%  60.00%
```

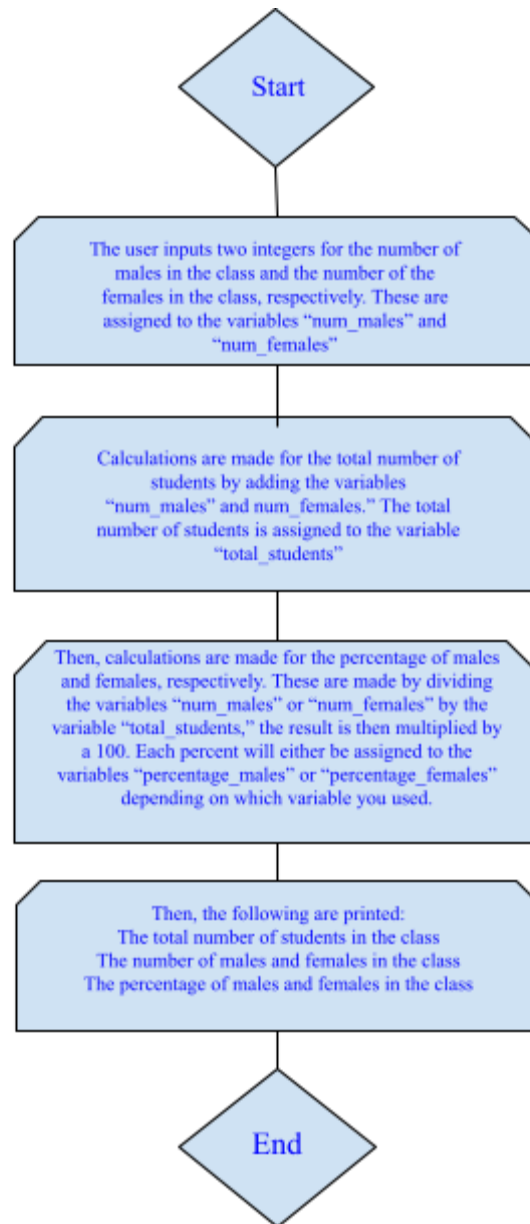
### 3. Variables

- a. **num\_males:** input for the number of males in the class  
**num\_females:** input for the number of females in the class  
**total\_students:** a sum of “num\_male” and “num\_female” variables which gives you the total number of students in the class.

**percentage\_males:** a division of the variable “num\_male” by the variable “total\_students” multiplied by the integer 100. This gives you the percentage of males in the class.

**percentage\_females:** a division of the variable “num\_female” by the variable “total\_students” multiplied by the integer 100. This gives you the percentage of females in the class.

#### 4. Flow Chart



#### 5. Errors and Lessons

- a. No errors experienced while writing this code.
- b. Lessons:**
  - i. In this assignment, I learned how to format the output of my code using the PEP-498; f-string format. These allowed me too use decimal points, as well as use spaces for my prints.
  - ii. Int function

I learned how to have numbers count as integers when inputting by using an int function around my input function.