Student Name:	Lab 16

Extend the program written in class (see recorded lecture if you missed class).

- Create a subroutine that calculates Celsius from Fahrenheit.
  - Accept Fahrenheit in $f12
  - Return Celsius in $f0
- In the mainline:
  - Ask the user for the temperature in Fahrenheit.
  - Convert the temperature to Celsius by calling the procedure.
  - Print the temperature in Celsius.
  - In addition, print the following messages based on the temperature:
    - If Celsius is <= 0, print ”You could freeze water.”
    - If Celsius is >= 100, print ”You could boil water.”

Hint: You may use c.le.s for checking both conditions.

Example Execution:

```
Please enter temperature in Fahrenheit:214
The temperature in Celsius is 101.111115
You could boil water.
```

Example Execution:

```
Please enter temperature in Fahrenheit:32
The temperature in Celsius is 0.0
You could freeze water.
```

Example Execution:

```
Please enter temperature in Fahrenheit:72
The temperature in Celsius is 22.222223
```

The following is required for all assignments and is included in the rubric for grading:

- You need to name your file as “LastName-Lab16.asm” (Example: Talley-Michelle-Lab16.asm)
- Your program will need to have the exact output unless otherwise stated.
- Your source needs to have comments that explain your implementation.
- You need to include the following set of comments at the top of your source code for all assignments.
  #Your Name
  #Assignment # (Example: Lab #16)
- You need to submit your source code on blackboard.
- You may use utils.asm, but you must submit it with your source code.
- Please submit your files in a zip file named LastName-FirstName- InClassAss17.zip) and make sure you include any files that are used as includes in the zip file (Example: utils.asm).