# Week2_programs

January 16, 2025

[3]:
```python
'''1. Last week you wrote a program that printed out a cheery greeting
including your name. Take a copy of it, and modify it so that the user
enters their name at the keyboard, and then receives a greeting.
For example:
Hello, what is your name? Mr Apricot
Hello, Mr Apricot. Good to meet you!'''

name = input("Hello, what is your name?")
print (f"Hello, {name}. Good to meet you!")
```

Hello, what is your name? Apricort

Hello, Apricort. Good to meet you!

[8]:
```python
'''2. Write a program that prompts a user to enter a temperature in Celsius,
and then displays the corresponding temperature in Fahrenheit, like so:
 Enter a temperature in Celsius: 32.5
 32.5C is equivalent to 90.5F'''
temperature = float(input("Enter a temperature in Celsius:"))
fahrenheit = (temperature*9/5)+32
print (f"{temperature}C is equivalent to {fahrenheit}F.")
```

Enter a temperature in Celsius: 32.5

32.5C is equivalent to 90.5F.

[7]:
```python
'''3. The Head of Computing at the University of Poppleton is tasked with
dividing a group of students into lab groups. A lab group is usually 24
students, but this is sometimes varied to create groups of similar size.
Write a program that prompts for the number of students and group size, and
then displays how many groups will be needed and how many will be left over
in a smaller group.
How many students? 113
Required group size? 22
There will be 5 groups with 3 students left over.
For bonus credit, see if you can fix the grammar in the output. So if there
were 101 students in groups of 20 the output would be:
There will be 5 groups with 1 student left over.'''

students = int(input("How many student?"))
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group_size = int(input("Required group size?"))

group_num = int(students / group_size)
leftovers = students % group_size
print (f"There will be {group_num} groups with {leftovers} left over.")
```

```
How many student? 113
Required group size? 22

There will be 5 groups with 3 left over.
```

[6]:
```python
'''4. A kindly teacher wishes to distribute a tub of sweets between her
pupils. She will first count the sweets and then divide them according to
how many pupils attend that day. Write a program that will tell the teacher
how many sweets to give to each pupil, and how many she will have left over.'''
sweets = int(input("Enter the total sweet count:"))
pupils = int(input("Enter the total pupils:"))

sweetsperpupil = int(sweets / pupils)
leftover = int(sweets % pupils)

print(f"Give {sweetsperpupil} sweets to each pupil, and you will have{leftover}␣
 ↪left over.")
```

```
Enter the total sweet count: 200
Enter the total pupils: 30

Give 6 sweets to each pupil, and you will have20 left over.
```