Notes - Wednesday 1/6/21 -Backup of the Temperature Converter Code

1/6/21: My first Python Code. It converts temperatures from F to C and C to F.

Huge thanks for @Tokugero and @Leeoku for helping me. And Girlshark for the inspiration

Code with comments

```
# Instantiate initial true flag to enter loop
run_loop = True
# Set global variable to count
retry = 0
# Runs code while retry is under 3
while retry < 3:
  # While set to go
  while run loop:
     # Try to capture a float at input time so we don't have to parse it later
    try:
       temp = (float(input("Enter temperature = ")))
     except Exception:
       # Exception catches all errors
       # more info here: https://docs.python.org/3/library/exceptions.html
       print("Input isn't a temperature; try again. Max 3 attempts. Attempts:",retry+1)
       retry +=1
       # If we can't establish a float for the first input, we'll simply skip the rest of this iteration and never set
       # the run loop flag to false, allowing loop to continue
       # Print is setup so it tells me how many attempts I'm at and shows the count
       break
       # Ends the program if I guess too much
     # Instantiate a sub loop
```

```
while run_loop_sub:
```

try:

unit = str(input("Enter C or F (for Celsius or Farhenheit) = "))

except Exception:

print("Input needs to be c/C or f/F")

Harder to hit this since "" is a string in input, but if it fails for whatever reason

just try again

continue

if unit.lower() == "c":

fahrenheit = (temp * 9/5) + 32

print(f'{round(fahrenheit,2)} F')

print('You know the temp now!')

Completion condition met, set loop flag to false to exit loop after this iteration

 $run_loop_sub = False$

elif unit.lower() == "f":

celsius = (temp - 32) * 5/9

print(f'{round(celsius,2)} C')

print('You know the temp now!')

Completion condition met, set loop flag to false to exit loop after this iteration

run_loop_sub= False

else:

print("You need to enter either c/C or f/F")

There is no satisfactory completion here, so don't set the close flag

If we make it here, that means that the sub while loop was satisfied, and there is no further exceptions

to

skip this flag; we can probably end the loop run_loop = False

#if retry == 3:

run_loop = False

Not sure if this helps or hurts

After experimenting, it doesn't seem to matter if it's here

Code without comments

```
run_loop = True
retry = 0
while retry < 3:
  while run_loop:
     try:
       temp = (float(input("Enter temperature = ")))
     except Exception:
       print("Input isn't a temperature; try again. Max 3 attempts. Attempts:",retry+1)
       retry += 1
       break
     run_loop_sub = True
     while run_loop_sub:
       try:
          unit = str(input("Enter C or F (for Celsius or Farhenheit) = "))
       except Exception:
          print("Input needs to be c/C or f/F")
          continue
       if unit.lower() == "c":
          fahrenheit = (temp * 9/5) + 32
          print(f'{round(fahrenheit,2)} F')
          print('You know the temp now!')
          run_loop_sub = False
       elif unit.lower() == "f":
          celsius = (temp - 32) * 5/9
          print(f'{round(celsius,2)} C')
          print('You know the temp now!')
          run_loop_sub= False
       else:
          print("You need to enter either c/C or f/F")
       run_loop = False
```

Updated 7 January 2021 04:40:05 by cba88