#ensuring invalid input in temp is loop back

while True:

try:

temperature = float(input("Enter the temperature:"))

break

except ValueError:

print ("Invalid input! Enter the temperature in numbers:")

#start from 0 for the input to replace

operation = 0

while True:

scale = str(input("Enter the scale (C or F):")).lower() #.lower() to account for those who did not capitalize

if scale == "c":

while True:

try:

operation = int(input("Chooose an operation: (1) Convert to Fahrenheit (2) Get advice:"))

if operation == 1 or operation == 2:

break

else:

print ("Invalid input! Enter 1 or 2:")

#except ValueError to account for those who put a different data types

except ValueError:

print ("Invalid input! Enter 1 or 2:")

break

elif scale == "f":

while True:

try:

operation = int(input("Chooose an operation: (1) Convert to Celsius (2) Get advice:")) #what if they put 4

if operation == 1 or operation == 2:

break

else:

print ("Invalid input! Enter 1 or 2:")

except ValueError:

print ("Invalid input! Enter 1 or 2:")

break

else:

print("please input C or F")

#defining all functions

def convert\_to\_fahrenheit (celsius):

F = (9 / 5 \* celsius) + 32

return F

def convert\_to\_celsius (fahrenheit):

C = (5 / 9) \* (fahrenheit - 32)

return C

def provide\_temperature\_advice (temperature, scale):

if scale == "c":

if temperature < 0:

print ("It's freezing cold!")

elif temperature >= 0 and temperature <= 20:

print ("It's cool.")

else:

print ("It's warm.")

elif scale == "f":

if temperature < 32:

print ("It's freezing cold!")

elif temperature >= 32 and temperature <= 68:

print ("It's cool.")

else:

print ("It's warm.")

#solve operation

if operation == 1:

if scale == "c":

print (f"The temperature in Fahrenheit is {(convert\_to\_fahrenheit (temperature)):.2f} degree Fahrenheit")

elif scale == "f":

print (f"The temperature in Celsius is {(convert\_to\_celsius (temperature)):.2f} degree Celsuis")

else:

provide\_temperature\_advice (temperature, scale)