01-Hector_Alvarez-Todedo

Item 1 – Temp Converter Input.....Points: 2/2

Item 2 – Temp Converter Output .....Points: 2/2

Item 3 – Temp Converter Correctness.....Points: 2/2

Your temperature converter is a bit more sophisticated than necessary for this assignment. That's no problem, but I just wanted to point out to you that the use of a class, the Python conventional `if __name__ == "__main__":` construct, and the while True loop reflect that you *probably* already know how to program at the level that might be expected from someone after they complete this class, not as of the very first assignment. That is, your existing programming experience might just put you passed needing an introductory programming course.

As such, I may, from time to time, make critiques of your code that have nothing to do with the actual assignment and will not result in points off. If I have time, I might do some of that in the hope that you would gain a little something from the class.

The first such critique, which as I mentioned does not affect your grade, is that the name and use of a class called `Temp` is probably not appropriate here as you have done it. A name like `Temp` essentially implies that instances of the class will *hold* temperatures. That is, each instance will store (or have an attribute) that is a particular temperature value. It might store that temperature value in Celsius or Fahrenheit or even Kelvins. Then you could call a method on the instance to ask it to give you back the value in some specified units. Maybe such a method would be called something like `getFahrenheitValue()`.

One key here is that in Object-Oriented development, classes usually correspond to ***nouns*** (which your `Temp` class does by the name), but then instances of the class should represent one of the *things* that the noun specifies. Your `Temp` class is a functional break down of your code. That is, it represents the functionality of doing temperature conversion. As such, it would probably be better as a simple function called something like `convert_temperature`.

To do this with a class with a named like your `Temp` class, I would recommend something that looks a little more like the following, in which I have created and used a class called `Temperature`.

```
import enum

class TemperatureUnits(enum.Enum):
    Celsius = 1
    Fahrenheit = 2

class Temperature:

    def __init__(self, value, units=TemperatureUnits.Celsius):
        if units == TemperatureUnits.Celsius:
            self.celsiusValue = value
        elif units == TemperatureUnits.Fahrenheit:
            self.celsiusValue = (value - 32.0) * (5.0/9.0)
        else:
            raise Exception("Invalid Temperature Unit Specified")

    def getCelsiusValue(self):
        return self.celsiusValue

    def getFahrenheitValue(self):
        return self.celsiusValue * (9.0/5.0) + 32.0

def main():
    for i in range(3):
        f = float(input("Enter the temperature in Fahrenheit: "))
        temperature = Temperature(f, units=TemperatureUnits.Fahrenheit)
        print("The temperature in Celsius is", temperature.getCelsiusValue(),
              "degrees")

if __name__ == "__main__":
    main()
```

If this makes no sense to you, do not worry about it. If you're interested in discussing it, feel free to let me know, and we can set up a Zoom meeting.

Item 4 – Bitcoin Converter Conversion Rate Message ..... Points: 2/2

Item 5 – Bitcoin Converter Input..... Points: 1/1

Item 6 – Bitcoin Converter Output..... Points: 2/2

Item 7 – Bitcoin Converter Correctness..... Points: 3/3

Item 8 – Bitcoin Converter Style ..... Points: 2/2

Would be preferable to have the conversion function just do the single job of converting a specified quantity of bitcoins into a dollar value and return that dollar value. Separate out from that function the prompting of the user, the retrieving of input from the user, and the printing out of the resulting dollar value.

Item	Description	Points Possible	Points Earned	Percent
1	Temp Converter Input	2	2	100%
2	Temp Converter Output	2	2	100%
3	Temp Converter Correctness	2	2	100%
4	Bitcoin Converter Conversion Rate Message	2	2	100%
5	Bitcoin Converter Input	1	1	100%
6	Bitcoin Converter Output	2	2	100%
7	Bitcoin Converter Correctness	3	3	100%
8	Bitcoin Converter Style	2	2	100%
9	Fight Song: Output	2	2	100%
10	Fight Song: Use of Functions	3	3	100%
11	Fight Song: Style	1	1	100%
12	Phrase Repeater: Phrase Input	1	1	100%
13	Phrase Repeater: Num of Repetitions Input	1	1	100%
14	Phrase Repeater: Output	2	2	100%
15	Answers Questions in Canvas Submission	1	1	100%
	Total	**27**	**27**	**100.00%**