**Celsius to Fahrenheit temperature converter**

Write a program that converts Celsius temperatures to Fahrenheit temperatures. The user will enter their name and current Celsius temperature. The program will compute the Fahrenheit temperature. The output will be similar to the following:

*Jeremy’s Fahrenheit temperature: 68*

**ALGORITHM**

1. Ask user name
2. Ask user for temperature
3. Calc Fahrenheit temperature by formula: (9/5)C+32
4. Display name
5. Display Fahrenheit temperature

**VARIABLES**

userName (str)

temperature(float)

fahTemp(float)

**FORMULAS**

fahTemp=(9/5) \* temperature+32

**TEST DATA – 5 complete data sets**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input**  **userName** | **Input**  **temperature** | **Process**  **Calc**  **fahTemp= (9/5) \* temperature +32** | **Display/Output**  **User’s Name Fahrenheit Temperature: fahTemp** |
| Jeremy | 20 | (9/5) \* 20+32 = 68 | Jeremy’s Fahrenheit temperature: 68 |
| Payne | 30 | (9/5) \* 30+32 = 86 | Payne’s Fahrenheit temperature: 86 |
| Jones | 40 | (9/5) \* 40+32 = 104 | Jones’s Fahrenheit temperature: 104 |
| James | 35 | (9/5)\* 35 +32 = 95 | James’s Fahrenheit temperature: 95 |
| Kate | 25 | (9/5) \* 25 + 32 = 77 | Kate’s Fahrenheit temperature: 77 |

**FLOWCHART**



**PYTHON CODE (submitted in separate compressed files)**

*Up to a 10-point deduction for uncommented code*

*Up to a 20-point deduction if applications does not execute*

#Celsius to Fahrenheit temperature converter

#Jeremy Bargy

#Jan. 8, 2020

#Initalize variables

userName = "" #str

temperature= 0.0 #float / celsius

fahTemp= 0.0 #float

#user data name and celsius temperature

userName= input('Pleaser enter your name: \n')

temperature= float(input('Please enter your Celsius temperature: \n'))

#Calculations

fahTemp= (9/5)\*temperature + 32

#Display results to user

print(userName, '\'s Fahrenheit Temperature:\t', fahTemp)

**TEST DATA EXECUTION RESULTS**

= RESTART: C:/Users/jbarg/OneDrive/Documents/Gulf Coast State College/COP1000/Chapter2/Chapter2lab.py

Please enter your name:

Jeremy

Please enter your Celsius temperature:

20

Jeremy 's Fahrenheit Temperature: 68.0

= RESTART: C:/Users/jbarg/OneDrive/Documents/Gulf Coast State College/COP1000/Chapter2/Chapter2lab.py

Please enter your name:

Payne

Please enter your Celsius temperature:

30

Payne 's Fahrenheit Temperature: 86.0

= RESTART: C:/Users/jbarg/OneDrive/Documents/Gulf Coast State College/COP1000/Chapter2/Chapter2lab.py

Please enter your name:

Jones

Please enter your Celsius temperature:

40

Jones 's Fahrenheit Temperature: 104.0

= RESTART: E:\COP1000\Chapter2lab.py

Please enter your name:

James

Please enter your Celsius temperature:

35

James 's Fahrenheit Temperature: 95.0

= RESTART: E:\COP1000\Chapter2lab.py

Please enter your name:

Kate

Please enter your Celsius temperature:

25

Kate 's Fahrenheit Temperature: 77.0