Assignment 9 – Group: Francisco, Victor, Bruno, Yasser

**Exercise 38**

**Analysis:**

INPUT: --

OUTPUT: f - int

INTERNAL DATA: c - int

PROCEDURE:

For a specific temperature c, identify the correspondent temperature f that follow the formula f = ((9/5)\*c)+32. Display temperature c from -40 to 40 with jumps of 5 and display the correspondent temperature f for each one.

**PSEUDOCODE:**

VARIABLES:

c – int (internal data)

f – int (output)

START

FOR c=-40 TO 40 JUMP 5

f = (c\*9/5)+32

WRITE "Celsius temp: " + c + "----" + "Fahrenheit temp: " + f

END FOR

END

**TRACE TABLE**

|  |  |
| --- | --- |
| **c** | **f** |
| -40.00 | -40.00 |
| -35.00 | -31.00 |
| -30.00 | -22.00 |
| -25.00 | -13.00 |
| -20.00 | -4.00 |
| -15.00 | 5.00 |
| -10.00 | 14.00 |
| -5.00 | 23.00 |
| 0.00 | 32.00 |
| 5.00 | 41.00 |
| 10.00 | 50.00 |
| 15.00 | 59.00 |
| 20.00 | 68.00 |
| 25.00 | 77.00 |
| 30.00 | 86.00 |
| 35.00 | 95.00 |
| 40.00 | 104.00 |