

# Experiment – 3

## 3.1.2 Celsius to Fahrenheit

- ### Algorithm

STEP 1 : Start

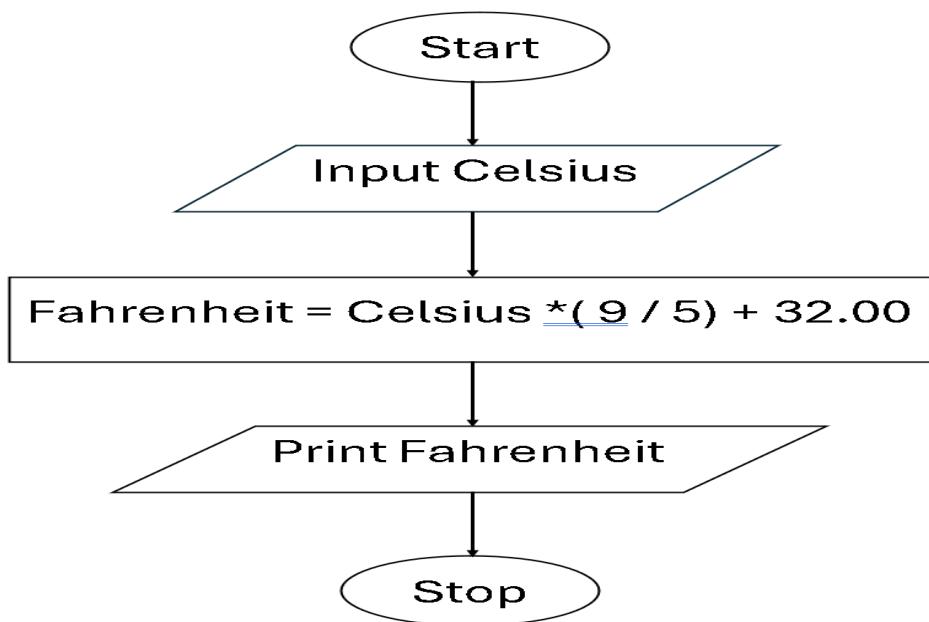
STEP 2 : Input Celsius

STEP 3 : Fahrenheit = Celsius \* (9/5) + 32

STEP 4 : Print Fahrenheit

STEP 5 : Stop

- ### Flowchart



# • Code

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```
c = float(input())
f = c*(9/5) + 32.00
print(f"{}{f:.2f}{}")
```

# • Execution

The screenshot shows the CodeTantra IDE interface. The top navigation bar includes 'Home', 'Logout', and other user information. The main workspace displays a code editor with the following Python script:

```
c = float(input())
f = c*(9/5)+32.00
print(f"{}{f:.2f}{}")
```

The code is part of a task titled "3.1.2. Celsius to Fahrenheit". The task description asks to write a Python program to convert temperature from Celsius to Fahrenheit. It provides a formula:  $Fahrenheit = \left(Celsius \times \frac{9}{5}\right) + 32$ . The input format specifies a single line containing a float value representing the temperature in Celsius. The output format specifies printing the temperature in Fahrenheit as a float value formatted to 2 decimal places.

The execution results show the following statistics:

- Average time: 0.007 s
- Maximum time: 0.009 s
- 7.38 ms
- 9.00 ms

Test results indicate that 4 out of 4 shown test cases passed and 4 out of 4 hidden test cases passed. The test cases listed are:

- Test case 1 (7 ms)
- Test case 2 (7 ms)
- Test case 3 (8 ms)
- Test case 4 (9 ms)

At the bottom, there are buttons for 'Terminal' and 'Test cases'. Navigation buttons include '< Prev', 'Reset', 'Submit', and 'Next >'.