

EXPERIMENT - 3

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3.1.2] Celsius to Fahrenheit

ALGORITHM

Step 1:- Start

Step 2 :- Read temperature in Celsius as float value `Celsius`

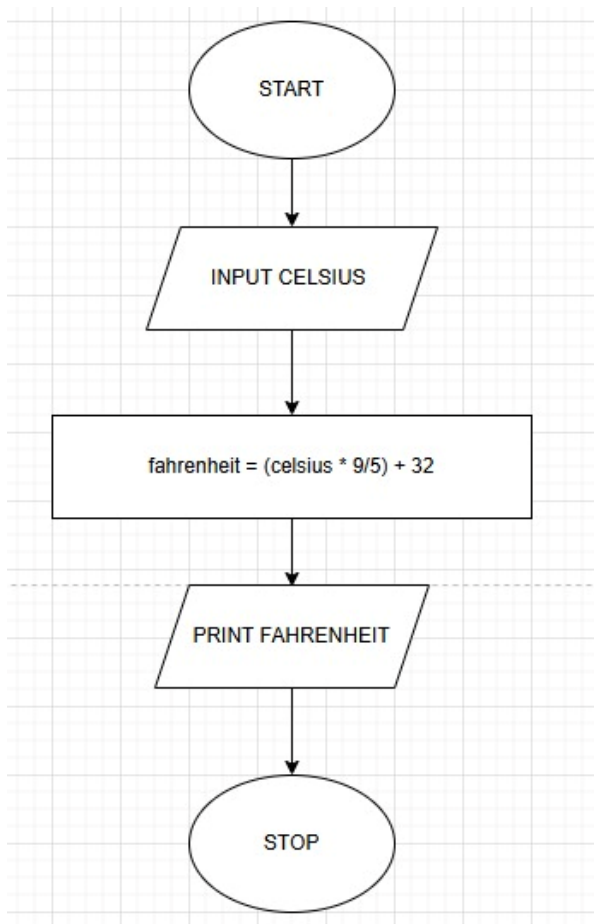
Step 3:- Calculate Fahrenheit using formula:

$$fahrenheit = (celsius \times \frac{9}{5}) + 32$$

Step 4 :- Print the Fahrenheit value formatted to 2 decimal places

Step5:- Stop

FLOWCHART



EXPERIMENT - 3

PYTHON CODE

```
celsius = float(input())
```

```
fahrenheit = (celsius * 9/5) + 32
```

```
print(f'{fahrenheit:.2f}')
```

EXCECUTION

The screenshot displays the CODETANTRA IDE interface. On the left, a panel titled "3.1.2. Celsius to Fahrenheit" provides instructions and the formula for conversion: $\text{Fahrenheit} = (\text{Celsius} \times \frac{9}{5}) + 32$. It also specifies the input and output formats. The main editor shows the Python code for conversion. The right sidebar displays the execution results, including performance metrics and a list of test cases.

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3.1.2. Celsius to Fahrenheit 02:10

Write a Python program to convert temperature from Celsius to Fahrenheit.

Formula:
 $\text{Fahrenheit} = (\text{Celsius} \times \frac{9}{5}) + 32$

Input Format:
• Single line contains a float value representing the temperature in Celsius.

Output Format:
• Print the temperature in Fahrenheit as a float value formatted to 2 decimal places.

Sample Test Cases +

Explorer temperatur... Submit

```
1 celsius = float(input())
2
3 fahrenheit = (celsius * 9/5) + 32
4 print(f'{fahrenheit:.2f}')
```

Average time 0.005 s 5.13 ms Maximum time 0.009 s 9.00 ms

4 out of 4 shown test case(s) passed
4 out of 4 hidden test case(s) passed

Test case 1 9 ms

Expected output	Actual output
8.8	8.8
32.00	32.00

Test case 2 5 ms

Test case 3 4 ms

Terminal Test cases

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