

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`

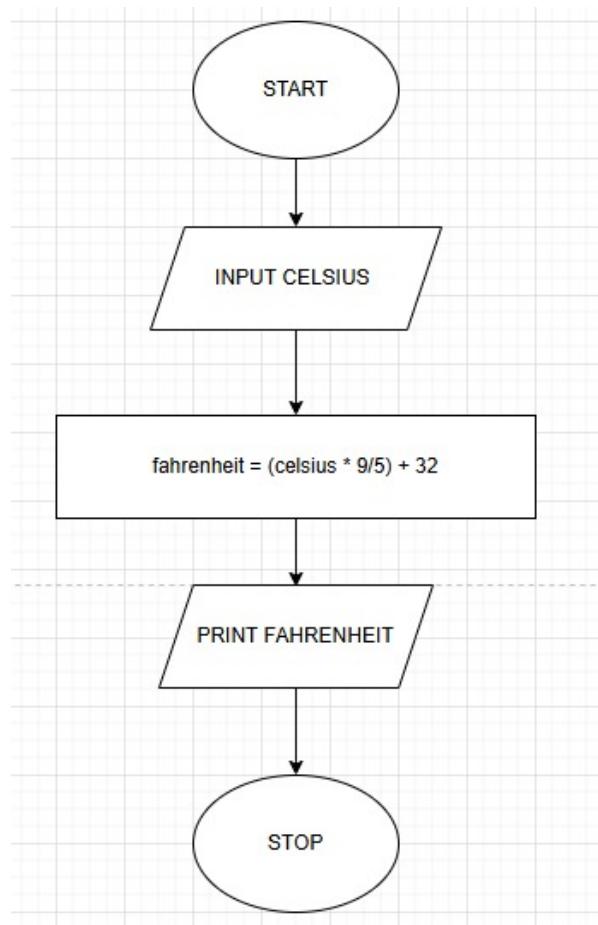
Step 3:- Calculate Fahrenheit using formula:

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

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

Step5:- Stop

FLOWCHART



PYTHON CODE

EXPERIMENT - 3

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

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

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

EXCECUTION

The screenshot shows the CodeTantra IDE interface. The code editor contains the following Python script:

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

The execution results show:

- Average time: 0.002 s
- Minimum time: 0.004 s
- 2.38 ms
- 4 out of 4 shown test case(s) passed
- 4 out of 4 hidden test case(s) passed

Test cases details:

- Test case 1: Expected output 0.0, Actual output 0.0
- Test case 2: Expected output 32.00, Actual output 32.00
- Test case 3: Expected output 0.0, Actual output 0.0

At the bottom, there are buttons for < Prev, Reset, Submit, and Next >.