

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`

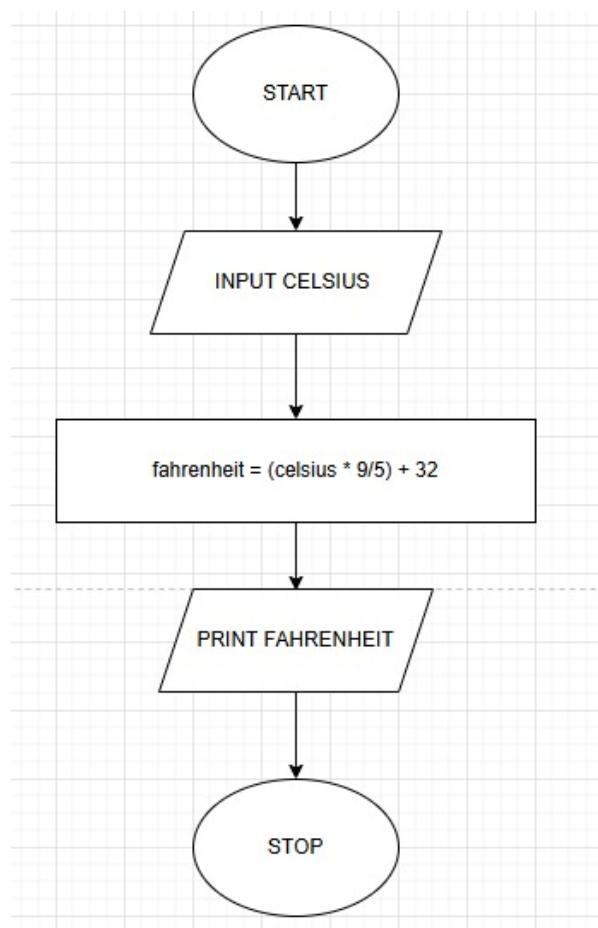
Step 3:- Calculate Fahrenheit using formula:

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

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

Step5:- Stop

FLOWCHART



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PYTHON CODE

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

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

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

EXECUTION

The screenshot shows the CodeTantra IDE interface. The title bar says "CODETANTRA" and "Home". The user is logged in as "om.kashikar.batch2025@sitnagpur.siu.edu.in". The main area displays a code editor with the following Python script:

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

Below the code editor, there are performance metrics: Average time 0.005 s (5.13 ms), Maximum time 0.009 s (9.00 ms). It also shows that 4 out of 4 shown test cases and 4 out of 4 hidden test cases passed.

The test cases section shows three successful test cases:

- Test case 1: Expected output 8.0, Actual output 32.00
- Test case 2: (No details shown)
- Test case 3: (No details shown)

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