

EXPERIMENT - 3

Name : Kanhaiya Tyagi

PRN : 25070521157

3.1.2] Celsius to Fahrenheit

ALGORITHM

Step 1:- Start

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

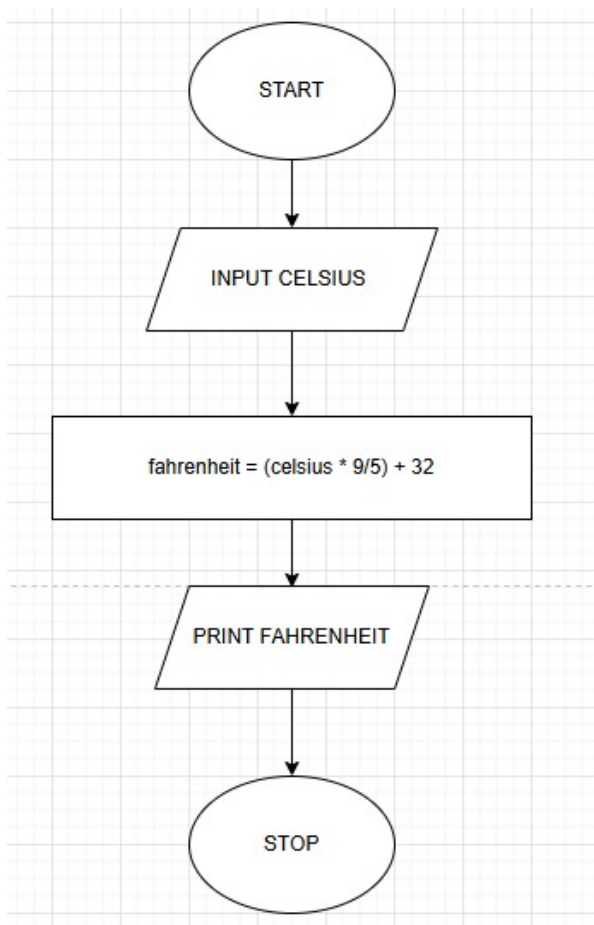
Step 3:- Calculate Fahrenheit using formula:

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

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 displays the CodeTANTRA IDE interface. On the left, a panel titled "3.1.2. Celsius to Fahrenheit" provides instructions and formulas for the conversion. The main editor shows a Python script that takes a Celsius value as input, calculates the Fahrenheit equivalent, and prints it with two decimal places. The right sidebar shows the execution results, including a table of test cases and their outcomes.

CodeTANTRA Home

kanhaiya.tyagi.batch2025@sitnagpur.siu.edu.in Support Logout

3.1.2. Celsius to Fahrenheit

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

temperat...

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

Execution Results:

Test Case	Expected output	Actual output	Status
Test case 1	32.00	32.00	Passed
Test case 2			Passed
Test case 3			Passed

Summary: 4 out of 4 shown test case(s) passed, 4 out of 4 hidden test case(s) passed.

Buttons: Prev, Next, Run, Submit, Debug, Test cases, Terminal.