# Experiment - 3.1.2. Celsius to Fahrenheit

1. Aim

To design and implement a Python program that converts temperature from Celsius to Fahrenheit. The program accepts a floating-point value representing Celsius and applies the formula $Fahrenheit = (Celsius \times \frac{9}{5}) + 32$, displaying the result formatted to two decimal places.

2. Pseudocode

1. **START**
2. **READ** the input value as a float and store it in variable a (Celsius).
3. **CALCULATE** the Fahrenheit value using the formula: b = a * (9/5) + 32.
4. **STORE** the result in variable b.
5. **FORMAT** the value of b to 2 decimal places.
6. **PRINT** the formatted result.
7. **END**

3. Flowchart
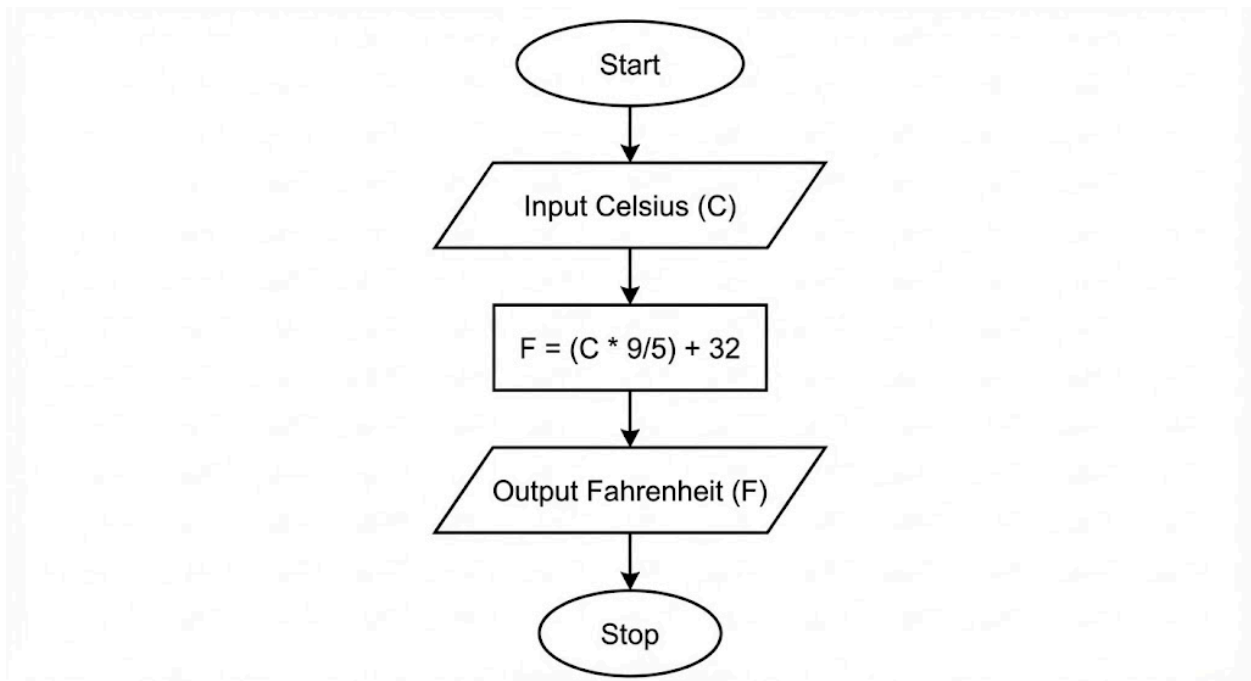
4. Python Program

```
# Program to convert Celsius to Fahrenheit
# Input: Celsius value as a float
# Output: Fahrenheit value formatted to 2 decimal places

# Taking Celsius input from the user
a = float(input(""))

# Applying the conversion formula
b = a * (9/5) + 32

# Displaying the result formatted to 2 decimal places
print(f"{b:.2f}")
```

5. Experiment Screenshot