



TEMPERATURE CONVERTER IN PYTHON

PHASE I REPORT

Submitted by

AKSHAYA K 711321103005

in partial fulfillment for the award of the degree of

**BACHELOR OF TECHNOLOGY IN
CHEMICAL ENGINEERING**

**DEPARTMENT OF CHEMICAL ENGINEERING
KPR INSTITUTE OF ENGINEERING AND
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BONAFIDE CERTIFICATE

Certified that this project report “TEMPERATURE CONVERTER IN PYTHON” is the bona-fide work of “AKSHAYA K (711321103005)” who carried out the project work under my supervision.

SIGNATURE**DR. S. BALASUBRAMANIAN****HEAD OF THE DEPARTMENT**

Professor

Department of Chemical
Engineering,

KPR Institute of Engineering

and Technology, Arasur,

Coimbatore-641407.

SIGNATURE**DR.S. PRANAV****SUPERVISOR**

Assistant Professor

Department of Chemical
Engineering,

KPR Institute of Engineering

and Technology, Arasur,

Coimbatore-641407.

Submitted for the viva voce examination held on.....**INTERNAL EXAMINER****EXTERNAL EXAMINER**

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1. Project Overview

The Temperature Converter is a Python-based project that allows users to convert temperatures between Celsius and Fahrenheit. This simple yet functional tool demonstrates basic concepts of Python, such as:

- Input/Output
- Conditional Statements
- Functions
- Error Handling

2. Objective

The main objective of this project is to provide an easy-to-use tool that:

- Converts a given temperature from Celsius to Fahrenheit.
- Converts a given temperature from Fahrenheit to Celsius.

3. CODE

```
def main():
    print("Welcome to Temperature Converter!")
    print("1. Convert Celsius to Fahrenheit")
    print("2. Convert Fahrenheit to Celsius")

    choice = input("Enter 1 or 2: ")

    if choice == '1':
        celsius = float(input("Enter temperature in Celsius: "))
        fahrenheit = celsius_to_fahrenheit(celsius)
        print(f"{celsius:.2f}°C is equal to {fahrenheit:.2f}°F")
    elif choice == '2':
        fahrenheit = float(input("Enter temperature in Fahrenheit: "))
        celsius = fahrenheit_to_celsius(fahrenheit)
        print(f"{fahrenheit:.2f}°F is equal to {celsius:.2f}°C")
    else:
        print("Invalid choice! Please enter 1 or 2.")
```