



# TEMPERATURE CONVERTER – PYTHON PROJECT REPORT

**Team Name: TECK MASTER**

**Team Members: Vikram Thakur**

## INTRODUCTION

This project demonstrates a simple Temperature Converter built using Python. It allows users to convert temperatures between Celsius and Fahrenheit.

## Objective

The main objective of this project is to help students understand basic Python programming concepts such as functions, conditional statements, and user input.

## Theory Temperature conversion formulas:

1. Celsius to Fahrenheit:  $(C \times 9/5) + 32$

2. Fahrenheit to Celsius:  $(F - 32) \times 5/9$

## Python Code

```
print("welcome to temperature converter")

print("press '1' to convert from celsius to fahrenheit")

print("press '2' to convert from fahrenheit to celsius")

choice = input()

if choice == '1':

    print("please enter the temperature in celsius")

    celsius = float(input())

    fahrenheit = (celsius * 9/5) + 32

    print(f"{celsius}°C is {fahrenheit}°F")

elif choice == '2':
```

```
fahrenheit = float(input("please enter the temperature in fahrenheit"))
```

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

```
print(f"{fahrenheit}°F is {celsius}°C")
```

```
else:
```

```
print("Invalid choice. Please enter '1' or '2'")
```

## **Conclusion**

This project helped our team understand Python functions, conditional logic, and basic program design. The Temperature Converter is simple but effective for learning core programming concepts