



TEMPERATURE CONVERTER – PYTHON PROJECT REPORT

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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