

# AI & Prompt Engineering

## Assignment 1

### Question 1: Temperature Converter

#### Code:

```
def convert_temperature (temp, unit):  
    if unit.upper() == 'F':  
        return round ((temp - 32) * 5 / 9, 2)  
    elif unit.upper() == 'C':  
        return round ((temp * 9 / 5) + 32, 2)  
    else:  
        return None  
  
temperature = float (input ("Enter the temperature value: "))  
unit = input ("Enter the unit (F for Fahrenheit, C for Celsius): ")  
result = convert_temperature (temperature, unit)  
  
if result is not None:  
    if unit.upper() == 'F':  
        print(f"{temperature}°F is {result}°C")  
    else:  
        print(f"{temperature}°C is {result}°F")  
else:  
    print ("Invalid unit entered! Please use 'F' or 'C'.")
```

#### Output:

```
IPython 8.36.0 -- An enhanced Interactive Python. Type '?' for help.  
  
In [1]: %runfile 'C:/Users/Mritunjoy Paul/Desktop/Spyder ALL/temp converter.py' --wdir  
Enter the temperature value: 54  
Enter the unit (F for Fahrenheit, C for Celsius): C  
54.0°C is 129.2°F
```