

Activity 8

Write a python program to convert temperature to and from Celsius to Fahrenheit.

```
def celsius_to_fahrenheit(celsius):
```

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

```
    return fahrenheit
```

```
def fahrenheit_to_celsius(fahrenheit):
```

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

```
    return celsius
```

```
while True:
```

```
    print("\nOptions:")
```

```
    print("1. Convert Celsius to Fahrenheit")
```

```
    print("2. Convert Fahrenheit to Celsius")
```

```
    print("3. Exit")
```

```
    choice = input("Enter your choice (1/2/3): ")
```

```
    if choice == '1':
```

```
        celsius = float(input("Enter temperature in Celsius: "))
```

```
        result = celsius_to_fahrenheit(celsius)
```

```
        print(f"{celsius}°C is equal to {result}°F")
```

```
    elif choice == '2':
```

```
        fahrenheit = float(input("Enter temperature in Fahrenheit: "))
```

```
        result = fahrenheit_to_celsius(fahrenheit)
```

```
        print(f"{fahrenheit}°F is equal to {result}°C")
```

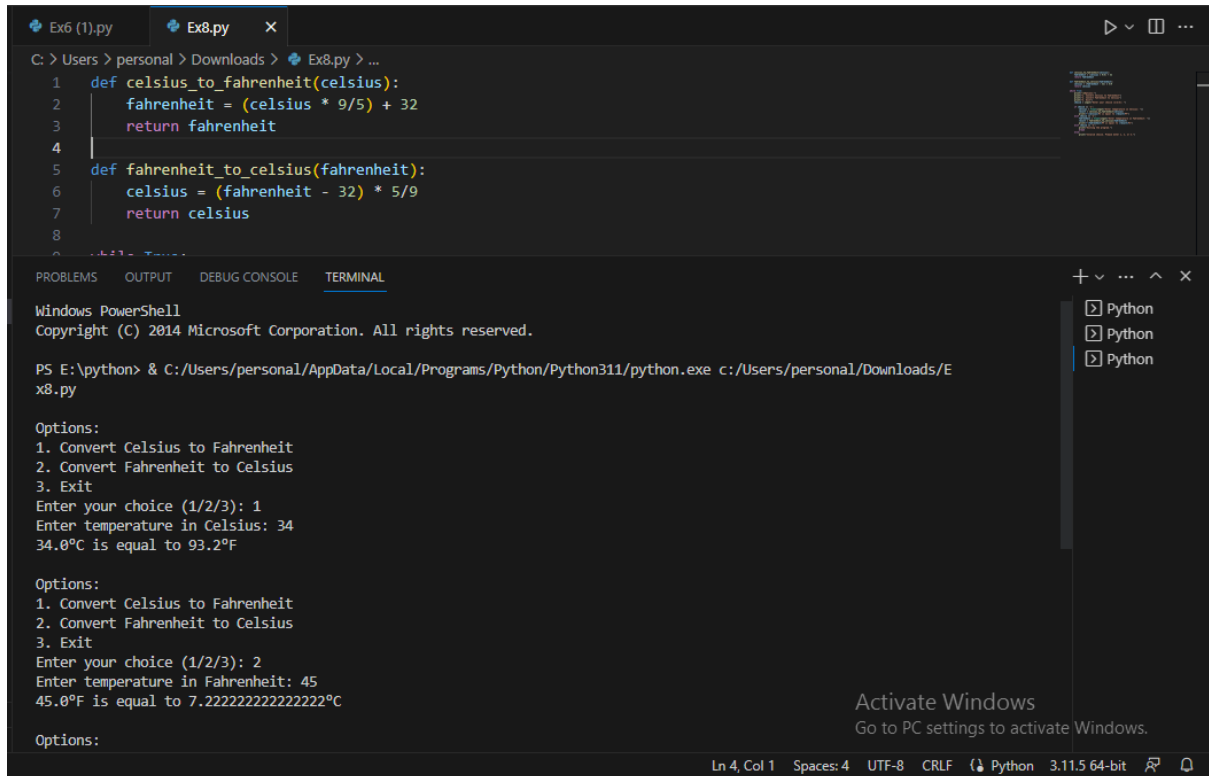
```
    elif choice == '3':
```

```
        print("Exiting the program.")
```

break

else:

print("Invalid choice. Please enter 1, 2, or 3.")



The screenshot shows a Python IDE with a file named `Ex8.py` open. The code defines two functions: `celsius_to_fahrenheit` and `fahrenheit_to_celsius`. The terminal window shows the program's execution, displaying a menu of options and the results of two conversions: Celsius to Fahrenheit and Fahrenheit to Celsius.

```
def celsius_to_fahrenheit(celsius):
    fahrenheit = (celsius * 9/5) + 32
    return fahrenheit

def fahrenheit_to_celsius(fahrenheit):
    celsius = (fahrenheit - 32) * 5/9
    return celsius
```

Windows PowerShell
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PS E:\python> & C:/Users/personal/AppData/Local/Programs/Python/Python311/python.exe c:/Users/personal/Downloads/Ex8.py

Options:
1. Convert Celsius to Fahrenheit
2. Convert Fahrenheit to Celsius
3. Exit
Enter your choice (1/2/3): 1
Enter temperature in Celsius: 34
34.0°C is equal to 93.2°F

Options:
1. Convert Celsius to Fahrenheit
2. Convert Fahrenheit to Celsius
3. Exit
Enter your choice (1/2/3): 2
Enter temperature in Fahrenheit: 45
45.0°F is equal to 7.22222222222222°C

Options:

Activate Windows
Go to PC settings to activate Windows.

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