```
def celsius_to_fahrenheit(celsius):
  return (celsius * 9/5) + 32
def fahrenheit_to_celsius(fahrenheit):
  return (fahrenheit - 32) * 5/9
def temperature_converter():
  print("Welcome to the Temperature
Converter!")
  try:
    value = float(input("Enter the temperature
value: "))
  except ValueError:
    print("Invalid input. Please enter a numeric
value.")
    return
  source_unit = input("Enter the source unit (C
for Celsius, F for Fahrenheit): ").upper()
  target_unit = input("Enter the target unit (C
```

for Celsius, F for Fahrenheit): ").upper()

```
if source_unit == target_unit:
    print("Source and target units are the same.
No conversion needed.")
    return
  if source_unit == 'C' and target_unit == 'F':
    result = celsius_to_fahrenheit(value)
    print(f"{value} Celsius is equal to {result:.2f}
Fahrenheit.")
  elif source_unit == 'F' and target_unit == 'C':
    result = fahrenheit_to_celsius(value)
    print(f"{value} Fahrenheit is equal to
{result:.2f} Celsius.")
  else:
    print("Unsupported units. Please choose
either Celsius (C) or Fahrenheit (F).")
# Run the temperature converter
temperature_converter()
```