

Experiment8: Write a python program to convert temperature to and from Celsius to Fahrenheit.

Code:

```
def celsius_to_fahrenheit(celsius):
    return(celsius*9/5)+32
def fahrenheit_to_celsius(fahrenheit):
    return(fahrenheit-32)*5/9
def main():
    print("Temperature Conversion Program")
    print('1.Celsius to Fahrenheit')
    print('2.Fahrenheit to Celsius')
    choice=(int(input("enter your choice:")))

    if choice==1:
        celsius=float(input("Enter temp in degree cel:"))
        fahrenheit=celsius_to_fahrenheit(celsius)
        print(f'{celsius} Celsius is equal to {fahrenheit} Fahrenheit.")

    elif choice==2:
        fahrenheit=float(input("Enter temp in fahrenheit:"))
        celsius=fahrenheit_to_celsius(fahrenheit)
        print(f'{fahrenheit} Fahrenheit is equal to {celsius} Celsius.")

    else:
        print('Invalid Choice!Please try again')

if __name__=="__main__":
    main()
```

OUTPUT:

```
Temperature Conversion Program
1.Celsius to Fahrenheit
2.Fahrenheit to Celsius
enter your choice:1
Enter temp in degree cel:32
32.0Celsius is equal to 89.6 Fahrenheit.
```

```
Temperature Conversion Program
1.Celsius to Fahrenheit
2.Fahrenheit to Celsius
enter your choice:2
Enter temp in fahrenheit:89.6
89.6Fahrenheit is equal to 32.0 Celsius.
```