	Lab 01 – Introduction to Programming Fundamentals	
Student Name:	Roll No:	Section:

## **Programming Exercise**

1. Write a program for converting Degree Centigrade to Fahrenheit.

2. Write a program for converting Degree Fahrenheit to Centigrade.

3. Write a program to calculate the area of rectangle.

4. Write a program to calculate the volume of a sphere.

```
from math import *

radius = int(input("Enter The Radius of Sphere in Centimeters: "))

volume = 4 / 3 * pi * radius ** 3

print(f"\nThe Volume of the Sphere of Radius {radius} is {volume}")

Run volumeOfSphere × : -

| // home/okaymisba/Downloads/NED/venv/bin/python /home/okaymisba/Downloads/NED/Lab 1 (27-August-2024)/volumeOfSpherEnter The Radius of Sphere in Centimeters: 25

The Volume of the Sphere of Radius 25 is 65449.84694978735

Process finished with exit code 0
```

5. Write a program that can write your name is upper case, lower case, and title case.

6. The formula to calculate compound interest annually is given by:

$$A = P (1 + R/100) ^ t$$

Compound Interest = A - P

Where.

A = Amount

P = Principal Amount

R = Rate

T = Time span

Calculate the compound interest by taking input from the user by using above formula.