**Q1.** Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included). The numbers obtained should be printed in a comma-separated sequence on a single line.

**Answer:**

result = []

for num in range(2000, 3201):

# as requested in question:

if num % 7 == 0 and num % 5 != 0:

result.append(str(num))

print(",".join(result))

**Q2. Write a Python program to accept the user's first and last name and then getting them printed in the reverse order with a space between first name and last name.**

**Answer :**

# Accept the user's first name

first\_name = input("Enter your first name: ")

# Accept the user's last name

last\_name = input("Enter your last name: ")

# Reverse the first and last names

reversed\_first\_name = first\_name[::-1]

reversed\_last\_name = last\_name[::-1]

# Print the reversed names with a space in between

print(f"{reversed\_first\_name} {reversed\_last\_name}")

**3. Write a Python program to find the volume of a sphere with diameter 12 cm. Formula:**

**V=4/3 \* π \* r \*\*3**

**Answer:**

import math

# Given diameter of the sphere

diameter = 12

radius = diameter / 2

# Calculate the volume using the formula V = 4/3 \* π \* r^3

volume = (4/3) \* math.pi \* (radius \*\* 3)

# Print the volume

print(f"The volume of the sphere with diameter {diameter} cm is {volume:.2f} cubic centimeters.")