**Assignment 2**

**# Problem 1**

name = input("Enter your name: ")

print(f"Hello, {name}!")

**# Problem 2**

import math

radius = float(input("Enter the radius of the circle: "))

area = math.pi \* radius\*\*2

print(f"The area of the circle is {area:.2f}")

**# Problem 3**

length = float(input("Enter the length of the rectangle: "))

width = float(input("Enter the width of the rectangle: "))

perimeter = 2 \* (length + width)

area = length \* width

print(f"The perimeter of the rectangle is {perimeter}")

print(f"The area of the rectangle is {area}")

**# Problem 4**

num1 = int(input("Enter the first number: "))

num2 = int(input("Enter the second number: "))

num3 = int(input("Enter the third number: "))

\_sum = num1 + num2 + num3

product = num1 \* num2 \* num3

average = \_sum / 3

print(f"Sum: {\_sum}, Product: {product}, Average: {average}")

**# Problem 5**

talents = float(input("Enter talents: "))

pounds = float(input("Enter pounds: "))

lots = float(input("Enter lots: "))

lots\_in\_pound = 32

pounds\_in\_talent = 20

grams\_in\_lot = 13.3

total\_grams = ((talents \* pounds\_in\_talent + pounds) \* lots\_in\_pound + lots) \* grams\_in\_lot

kilograms = int(total\_grams // 1000)

grams = total\_grams % 1000

print(f"The weight in modern units: {kilograms} kilograms and {grams:.2f} grams.")

**# Problem 6**

import random

lock1 = [random.randint(0, 9) for \_ in range(3)]

print(f"3-digit lock code: {lock1}")

lock2 = [random.randint(1, 6) for \_ in range(4)]

print(f"4-digit lock code: {lock2}")