# basic\_operations.py

# Define the two variables

number1 = 10

number2 = 5

# Perform the arithmetic operations

addition = number1 + number2

subtraction = number1 - number2

multiplication = number1 \* number2

# Print the results

print(f"Addition of {number1} and {number2} is {addition}")

print(f"Subtraction of {number1} and {number2} is {subtraction}")

print(f"Multiplication of {number1} and {number2} is {multiplication}")

# simple\_interest.py

# Define the variables

principal = 1000 # $1000

rate = 0.05 # 5% annual interest rate

time = 3 # 3 years

# Calculate the simple interest

interest = principal \* rate \* time

# Print the result

print(f"The simple interest is: {interest}")

# rectangle\_area.py

# Define the variables

length = 10 # Length of the rectangle

width = 5 # Width of the rectangle

# Calculate the area

area = length \* width

# Print the result

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

# hours\_to\_seconds.py

# Define the variable

hours = 2 # Number of hours to convert

# Calculate the seconds

seconds = hours \* 3600 # 3600 seconds in an hour

# Print the result

print(f"{hours} hour(s) is {seconds} seconds.")

# future\_age\_calculator.py

# Prompt the user for their current age

current\_age = int(input("How old are you? "))

# Calculate the age in 2050

age\_in\_2050 = current\_age + (2050 - 2023)

# Print the result

print(f"In 2050, you will be {age\_in\_2050} years old.")