1. Declare two variables, `x` and `y`, and assign them integer values. Swap the

values of these variables without using any temporary variable.

**solution**

x = 10

y = 20

x = x\*y : 200

y = x/y : 10

x = x/y ; 20

2. Create a program that calculates the area of a rectangle. Take the length and

width as inputs from the user and store them in variables. Calculate and

display the area

length = 5

width = 10

area = length\*width = 50

type(area)

3. Write a Python program that converts temperatures from Celsius to

Fahrenheit. Take the temperature in Celsius as input, store it in a variable,

convert it to Fahrenheit, and display the result

1. Write a Python program that takes a string as input and prints the length of

the string.

A = ‘hello, world!’

Len(a)

type(len(a))

2. Create a program that takes a sentence from the user and counts the number

of vowels (a, e, i, o, u) in the string.

3. Given a string, reverse the order of characters using string slicing and print the reversed string.

4. Write a program that takes a string as input and checks if it is a palindrome

(reads the same forwards and backwards).

5. Create a program that takes a string as input and removes all the spaces from

it. Print the modified string without spaces.

Assignment

Full