

Exercises 01

Basics, Control Flow & Iteration and Operators

2000

Basics

Exercise 01

- What is the type of the following data?
 1. "Filoger"
 2. "19.0"
 3. 18
 4. 13.0
 5. True

Basics

Exercise 02

- Convert the following data to integer?

1. "Filoger"

2. "19.0"

3. 18

4. 13.0

5. True

Basics

Exercise 03 (Search!)

- Print running time of program to find type of the following data ?
 1. "Filoger"
 2. "19.0"
 3. 18
 4. 13.0
 5. True

Operators

Exercise 04

- Get a number as circle diameter, and calculate the circle area!

Points:

- Use **input method** to get circle diameter!
- Use **str.format()** method to print the output!
- Output must be same as following example, exactly!

Example: `input: 18 , output (print): Circle area is 254.469`

Operators

Exercise 05

- Get width, height and length ,then calculate and print the surface area and volume of a cuboid!

Points:

- Use **input method** to get the inputs!
- Use **str.format()** method to print the output!
- Output must be same as following example, exactly!

Example: `input1: 18, input2:4, input3:5 , output (print): Volume of cuboid is 360.00 and Surface area of cuboid is 364.000!`

Operators

Exercise 06

- input(2 number) and print sum, division, subtraction, multiplication

Points:

- Use **input method** to get circle diameter!
- Use **str.format()** method to print the output!
- Output must be same as following example, exactly!

Example: `input_1: 8, input_2: 4 , output: sum = 12, division=2, subtraction=4, multiplication=32`

Operators

Exercise 07

- Get two string, concatenate them and print the result!

Points:

- insert a space between two strings.
- Use **input method** to get circle diameter!
- Use **str.format()** method to print the output!
- Output must be same as following example, exactly!

Example: `input_1: string_1 , input_2: string_2 , output: result is "string_1 string_2"`

Operators

Exercise 08

- Write a Python program to convert Fahrenheit to Celcius.

Points:

- Use **input method** to get Fohrenheit!
- Use **str.format()** method to print the output!
- Output must be same as following example, exactly!

Example: input: 86 , output: 86 degree Fahrenheit is equal to 30.0 degree Celsius.

Control Flow & Iteration

Exercise 09 (Search)

- Find the max element of the [8, 120, 83, 89, 24, 97.5, 201]

output: 201

Control Flow & Iteration

Exercise 10

- Write a program in Python to display the **Factorial of a number**.

Hints:

- Use **input Method** to get the number!
- output: Factorial of {input number} is {result} !
- output format must be same as the above format, exactly.

Example: input: 9 , output: Factorial of 9 is 362880

Control Flow & Iteration

Exercise 11

- Generate random integer number and Write a program to **guess the number**.

Hints:

- Use **randint()** to generate the random number between 1 to 100.
- Use **input Method** to get the number!
- if guessed number is higher than generated number, print "Wrong, Guess the lower number!"
- if guessed number is lower than generated number, print "Wrong, Guess the higher number!"
- if guessed number is equal to the generated number, print "Correct, good job"

Example: Generated Number: 8 , Guessed Number: 26, output: Wrong, Guess the lower number!

Control Flow & Iteration

Exercise 12

- Print the following pattern using loops.

0 x 0 = 0

1 x 1 = 1

2 x 2 = 4

3 x 3 = 9

4 x 4 = 16

5 x 5 = 25

6 x 6 = 36

7 x 7 = 49

8 x 8 = 64

9 x 9 = 81

10 x 10 = 100

Control Flow & Iteration

Exercise 13

- Use for loop to iterate from 0 to n (input number) and print the sum of all numbers.

Example: Input Number: 100, output: The sum of all numbers is 5050.

Control Flow & Iteration

Exercise 14 (Search)

- This is a fruit list, ['banana', 'orange', 'mango', 'lemon'] reverse the order using loop.

```
output: [ 'lemon', 'mango', 'orange', 'banana' ]
```