Assignment of data values

Assign 20 to the integer variable i

Assign 150.45 to the floating point variable j

Assign "AkiSoft" to the string variable str1

Assign 300 to integer variables var1 and var2 in one line

Assign 1 to integer variable var3, 2 to integer variable var4 and "AkiSoft" to string variable var5 in one line

Print i, j, str1, var1, var2, var3, var4 and var5

String and List manipulation

Assign 'This is my second Python program!' to string variable str

Assign 'And I love it!' to string variable stradd

Print str

Print the first character of str

Print the 3rd to 6th character of str

Print str starting from the 3rd character

Print str two times

Parse str and place the substrings in an array (list)

Print str concatenated with the string "TEST"

Print str concatenated with stradd using the join function

Tuples

Assign the values 'MON', 'TUE', 'WED', 3 to a tuple variable called tuple1

Assign the values 'THR', 'FRI', 2 to a tuple variable called tuple 2

Assign 1, 4, 8, 12 to a list variable called list1

Print tuple1

Print the 1st element of tuple1

Print the elements of tuple1 starting from 2nd until 3rd

Print the elements of tuple1 starting from the 3rd element

Print the concatenated values of tuple1 and tuple2

Append 16 to list1 and print the list

Dictionaries

Create an empty dictionary called dictAge

Create a key called 'Wayne' and assign a value of 20 to dictAge

Create a key called 'David' and assign a value of 40 to dictAge

Create a dictionary called dictJason and assign the following:

The key 'name' holds the value 'Wayne'

The key 'employeecode' holds the value 6734

The key 'dept' holds the value 'DCIT'

Print the value for 'Wayne' key

Print the value for 'David' key

Print the complete dictJason dictionary

Print all the keys of the dictJason dictionary

Print all the values of the dictJason dictionary

Selection structure

Create a list with the values: 'TCP', 'UDP', 'SMTP'

Write code to do the following:

If the value in the list is 'TCP' the string, "TCP Transport will be used" is printed. If the value in the list is 'UDP' the string, "UDP Transport will be used" is printed. If the value in the list is 'SMTP' the string, "Unknown Transport" is printed

Repetition structure

Create a list with the values: 'TCP', 'UDP', 'SMTP' Print the list using a for loop Add 'FTP' to the end of the list Print the values in the list using a while loop

Input data

Write code to prompt the user for his/her name and stores the value into a variable called name Write code to prompt the user for an employee code and stores this in a variable called employeecode

Write code to prompt the user for the department in which he/she works in and stores this in a variable called dept

Print name

Print employeecode

Print dept

Open the file 'employee.txt' for reading

Security: Tutorial Wk1 (2018) – Introduction to Python --- Each instruction begins with a capital letter Content for this tutorial can be found in text: Unlocking the mysteries of information security by Wayne Goodridge ---- Chapter 10, Section 2 (10.2)

Read each line of the file into a variable called line and print the contents of line. Do this until the end-of-file is reached

Parse the string line and place the substrings into a list variable called list1

Print the 1st item in list1

Print the 2nd item in list1

Print the 3rd item in list1

Function with Default Arguments

Write a Python function which accepts name, employeecode, dept='DCIT' and returns the values as a concatenated string

Call the function with the arguments: 'Wayne Goodridge', '3000' and print the returned string

Function with Required Arguments

Write a Python function which accepts name, employeecode and returns the values as a concatenated string

Call the function with the arguments: 'Wayne Goodridge', '3000' and print the returned string

Function with Key Arguments

Write a Python function which accepts name, employeecode and prints "Name: ", name_value and "Code: ", employeecode_value. The function returns no value.

Call the function with the arguments: name = 'Wayne Goodridge', employeecode = '3000' Call the function with the arguments: employeecode = '3000', name = 'Wayne Goodridge'

Function with variable number of arguments

Create a function called varArgumentsFunc which accepts a variable number of arguments Use a for loop to print out all the values of the arguments

Call the function with a value of 33

Call the function with values 50, 60, 70, 90, 77

Next Week --- Python Modules

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