

INNOVATION WITH PYTHON

FEBRUARY 22, 2018



ASSIGNMENT BOOK

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ASSIGNMENT BOOK

FOLLOWING ARE THE ASSIGNMENT QUESTIONS BASED ON THE COURSE COVERED DURING SESSION 3, 4 & 5.

QUESTION: 01 Make a list called things with these three strings as elements: "table" , "chair" and "sofa". Capitalize the element in the things list.

QUESTION: 02 Create a list called surprise with the element "happy", "sad", "emotions". Lowercase the last element of the list, reverse it, and then capitalize it.

QUESTION: 03 Define a function called name that returns the list ['Harry', 'tom', 'jerry'].

QUESTION: 04 Define a generator function called odd_value that returns the odd numbers from range (10). Use for loop to find and print the third value returned.

QUESTION: 05 Assign the string 'This is an innovation with python training' to the variable test1, and write test1 to a file called test.txt.

QUESTION: 06 Open the file test.txt (QUESTION 6) and read its contents into the string test2. Are test1 and test2 the same?

QUESTION: 07 Create a file called time.py. In it, define a function called hours () that prints the string 'Time is precious'. Then, use interactive interpreter to import the zoo module and call its hours () function.

QUESTION: 08 Write the logic to print first 10 numbers of Fibonacci series, add last three numbers from the series and store them into the variable called result.

QUESTION: 09 Find out the common character from the two different string using set.

QUESTION: 10 Create a file with contents:

Man lives on Land

Fish lives in Water

Crow lives on trees

Monkey lives on trees

Dolphin lives in Water

Cow lives on Land

Read this file line by line and create a dictionary with the words in this file and their respective count values and print it

QUESTION: 11 Write a program which takes numbers as input from users and print count, maximum, minimum, sum and average of numbers. Use list to store these numbers. If user enters anything other than a number (except when user enters quit, quit the program and display the results) then catch the exception using try/except and warn the user and then continue the program until the user enters quit.

For Ex:

Give a number: 3

Give a number: 5.0

Give a number: hi

Only numbers are allowed.

Give a number: quit

Results:

Maximum = 5.0

Minimum = 3

Sum = 8.0

Average = 4.0

QUESTION: 12 Write a script to concatenate following dictionaries to create a new one.

Sample Dictionary:

dic1= {1:'a', 2:'b'}

dic2= {3:'c', 4:'d'}

dic3= {5:'e', 6:'f'}

Expected Result: {1: 'a', 2: 'b', 3: 'c', 4: 'd', 5:'e' , 6: 'f'}

QUESTION: 13 Write a program to convert speed in km/hr to m/s. Use raw_input() to take input(speed in km/hr) from the user. Use try and except so that your program handles non-numeric input gracefully by printing a message and exiting the program.

QUESTION: 14 Write a script that read the sentence and gives the output as the length of each word in a sentence in the form of a list data structure. – HINT (Use map)

Complete the quiz “ <http://www.techbeamers.com/best-python-programming-online-test/> ”.

NOTE: Drop your solution according to the instruction provided at riyaz.h@consultadd.in before Sunday.