Syrian Arab Republic

اللاذقية -جامعـــة تشريـــن

الجمهورية العربية السورية

Lattakia - Tishreen Universit

كلية الهندسة الكهربائية والميكانيكية

Department of Communication and electrical engineering

قسم هندسة الاتصالات والالكترونيات

5th , Network Programming : Homework No1

برمجة شبكات 1السنة الخامسة: وظيفة

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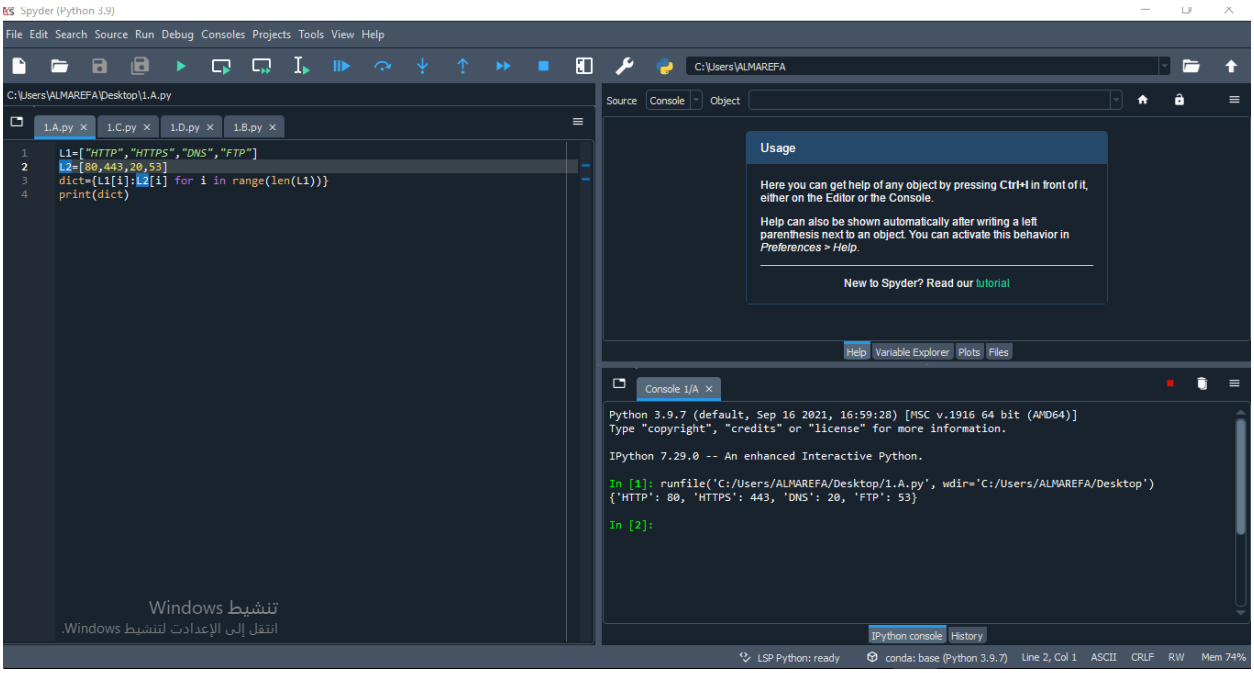
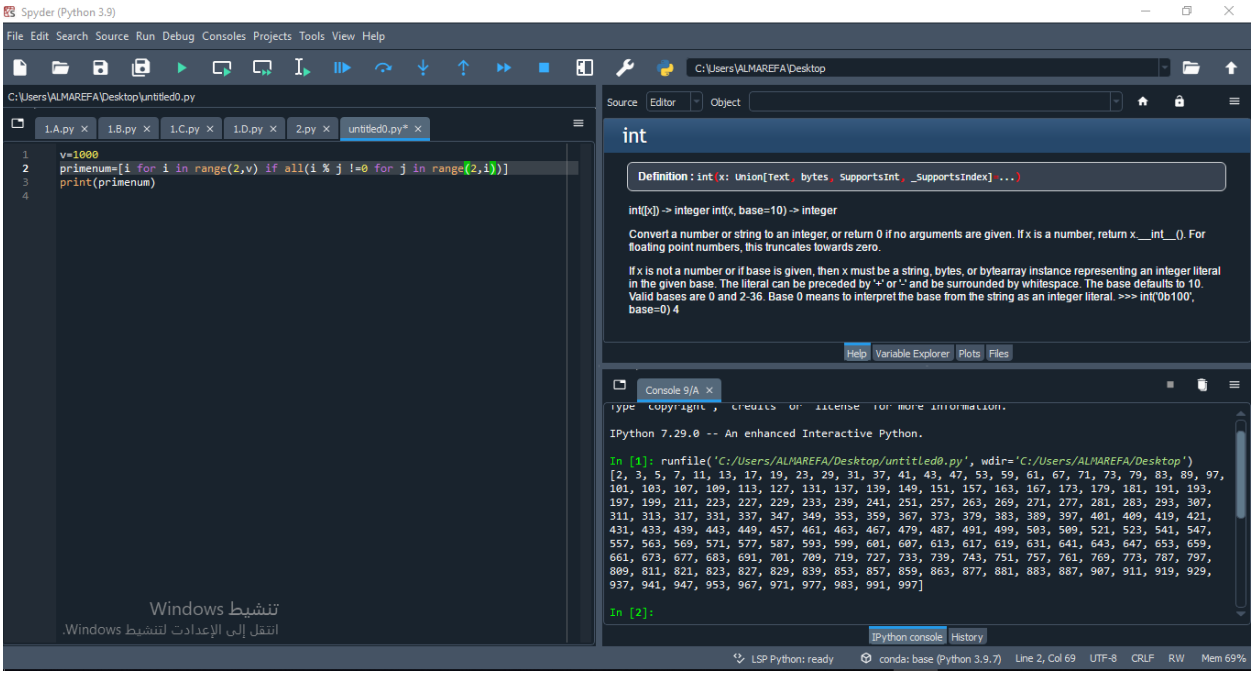
First Network Programming Homework

Question 1: Python Basics?

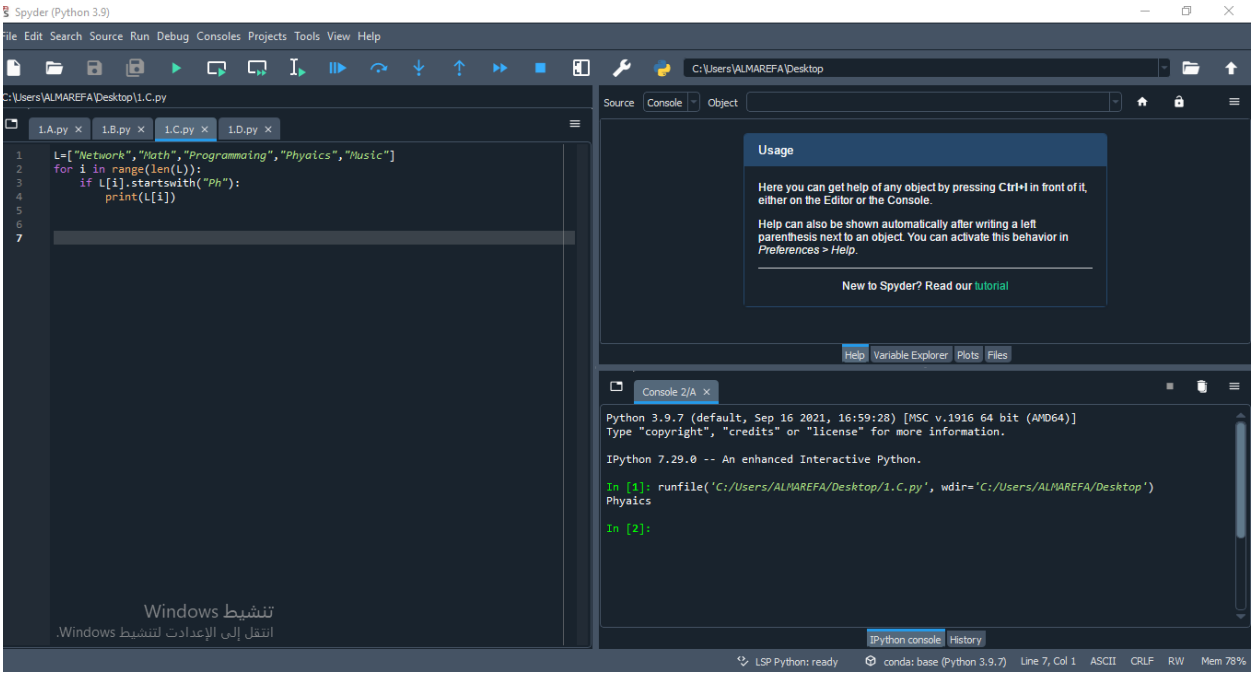
A-If you have two lists, L1=['HTTP','HTTPS','FTP','DNS'] L2=[80,443,20,53], convert it to generate this dictionary={'HTTP':80,'HTTPS':443,'FTP':20,'DNS':53 }



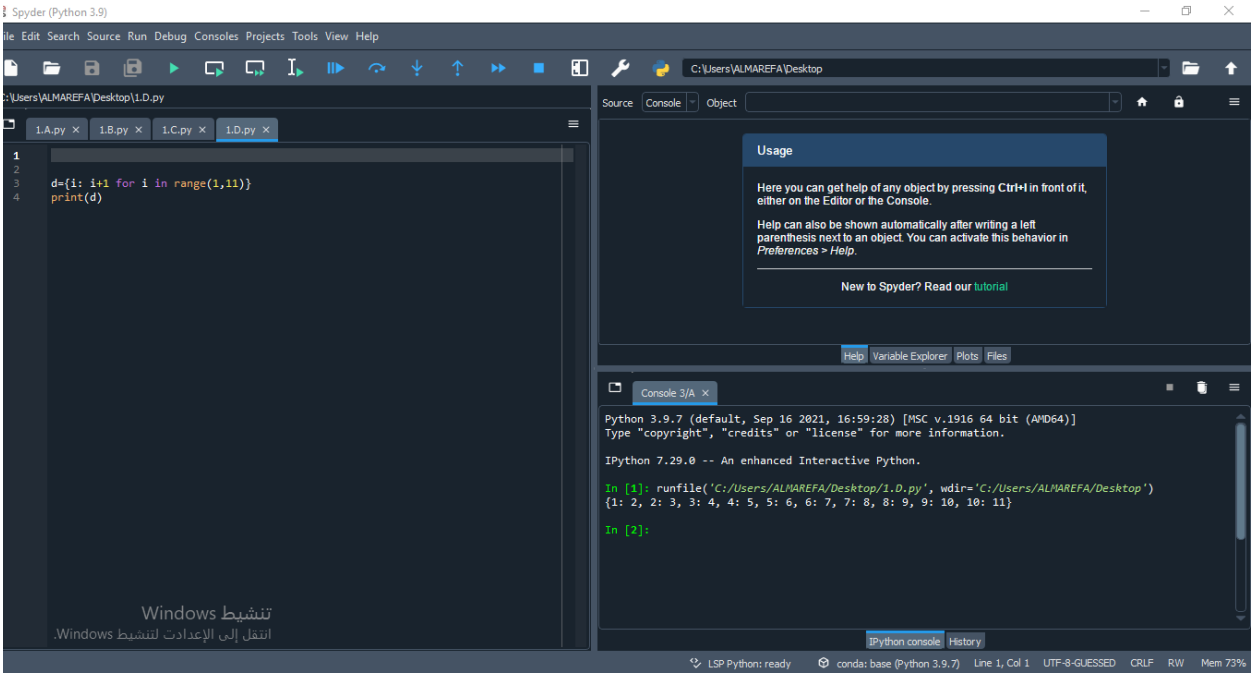
B- Generate and print a list of primary numbers from 1 to 1000. Tips: “List Comprehension”



C- L=[‘Network’ , ’Math’ , ’Programming’, ‘Physics’ , ‘Music’] In this exercise, you will implement a Python program that reads the items of the previous list and identifies the items that starts with ‘Ph’ letter, then print it on screen.
Tips: using loop, ‘len ()’ , startswith() methods.

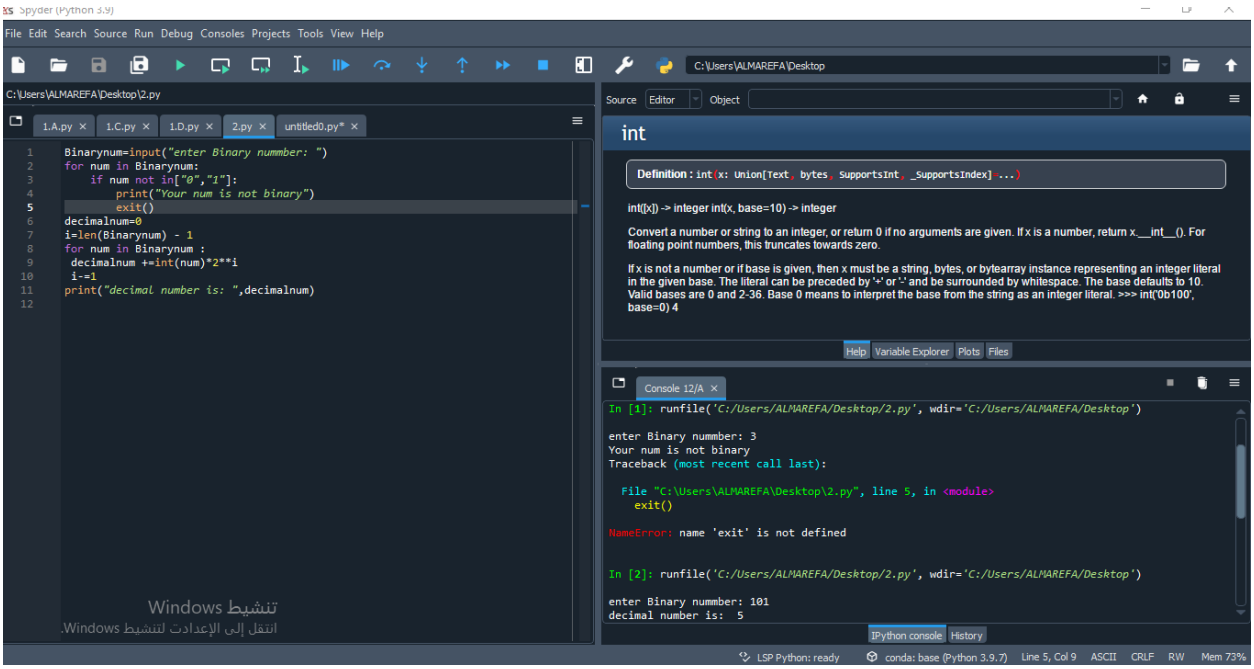


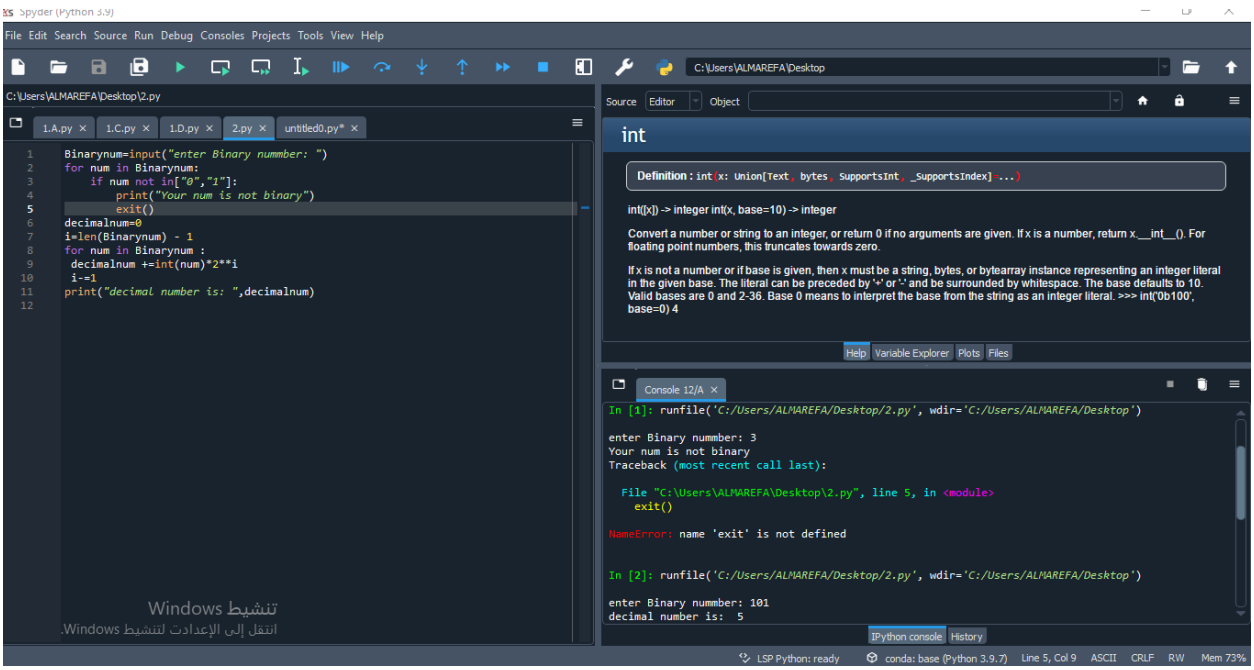
D: Using Dictionary comprehension, Generate this dictionary
d={1:2,2:3,3:4,4:5,5:6,6:7,7:8,8:9,9:10,10:11}



Question 2: Convert from Binary to Decimal

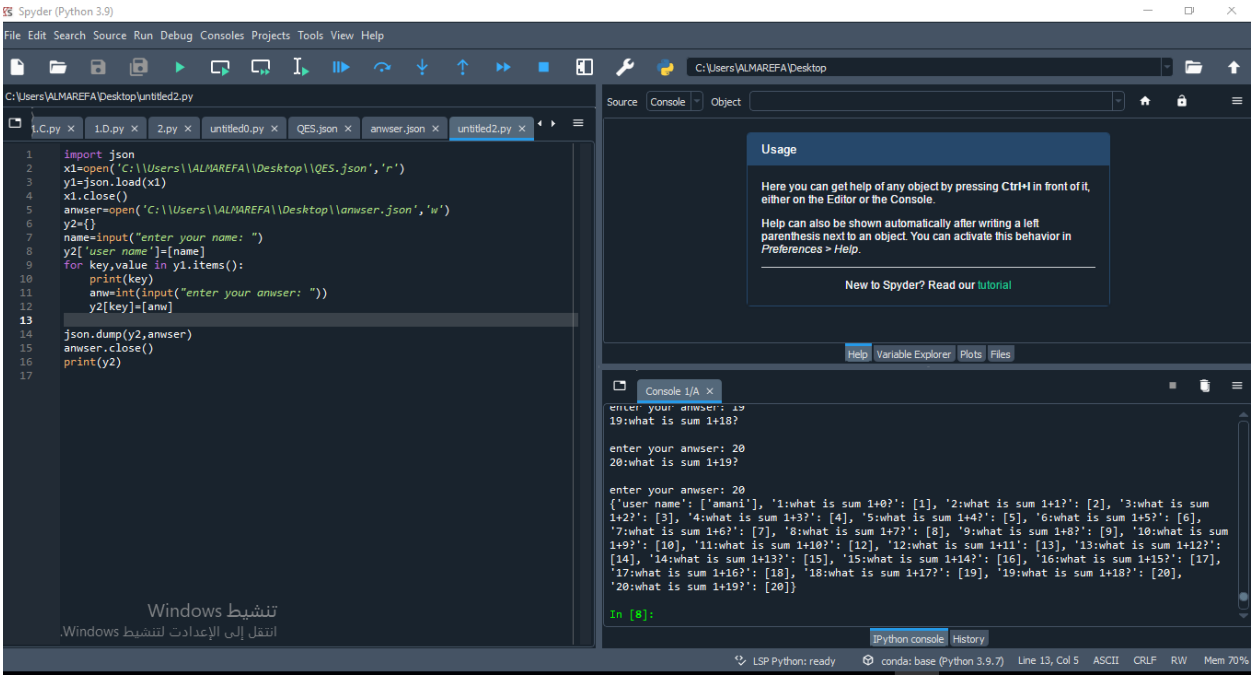
Write a Python program that converts a Binary number into its equivalent Decimal number. The program should start reading the binary number from the user. Then the decimal equivalent number must be calculated. Finally, the program must display the equivalent decimal number on the screen. Tips: solve input errors.





Question 3: Working with Files" Quiz Program"

Type python quiz program that takes a text or json or csv file as input for (20 (Questions, Answers)). It asks the questions and finally computes and prints user results and store user name and result in separate file csv or json file


Spyder (Python 3.9)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\ALMAREFA\Desktop\untitled2.py
1.C.py
1.D.py
2.py
untitled0.py
QES.json
anwser.json
untitled2.py
import json
x1=open('C:\\Users\\ALMAREFA\\Desktop\\QES.json','r')
y1=json.load(x1)
x1.close()
anwser=open('C:\\Users\\ALMAREFA\\Desktop\\anwser.json','w')
y2={}
name=input("enter your name: ")
y2['user name']=[name]
for key,value in y1.items():
print(key)
anw=int(input("enter your anwser: "))
y2[key]=[anw]
json.dump(y2,anwser)
anwser.close()
print(y2)
C:\Users\ALMAREFA\Desktop
Source
Console
Object
Usage
Here you can get help of any object by pressing Ctrl+I in front of it, either on the Editor or the Console.
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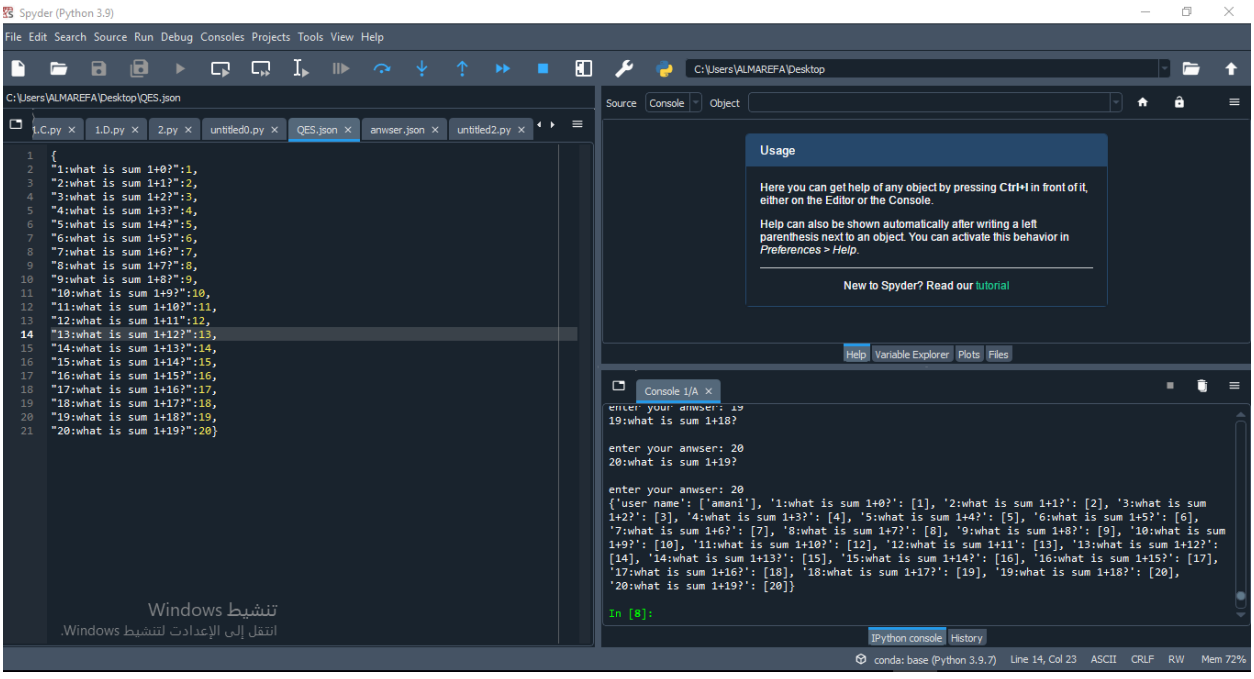
New to Spyder? Read our tutorial
Help
Variable Explorer
Plots
Files
Console 1/A
19:what is sum 1+18?
enter your anwser: 20
20:what is sum 1+19?
enter your anwser: 20
{'user name': ['amani'], '1:what is sum 1+0?': [1], '2:what is sum 1+1?': [2], '3:what is sum 1+2?': [3], '4:what is sum 1+3?': [4], '5:what is sum 1+4?': [5], '6:what is sum 1+5?': [6], '7:what is sum 1+6?': [7], '8:what is sum 1+7?': [8], '9:what is sum 1+8?': [9], '10:what is sum 1+9?': [10], '11:what is sum 1+10?': [12], '12:what is sum 1+11': [13], '13:what is sum 1+12?': [14], '14:what is sum 1+13?': [15], '15:what is sum 1+14?': [16], '16:what is sum 1+15?': [17], '17:what is sum 1+16?': [18], '18:what is sum 1+17?': [19], '19:what is sum 1+18?': [20], '20:what is sum 1+19?': [20]}
In [8]:
IPython console
History
LSP Python: ready
conda: base (Python 3.9.7)
Line 13, Col 5
ASCII
CRLF
RW
Mem 70%
تنشيط Windows
انتقل إلى الإعدادات لتنشيط Windows.


Spyder (Python 3.9)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\ALMAREFA\Desktop\QES.json
1.C.py
1.D.py
2.py
untitled0.py
QES.json
anwser.json
untitled2.py
{
"1:what is sum 1+0?":1,
"2:what is sum 1+1?":2,
"3:what is sum 1+2?":3,
"4:what is sum 1+3?":4,
"5:what is sum 1+4?":5,
"6:what is sum 1+5?":6,
"7:what is sum 1+6?":7,
"8:what is sum 1+7?":8,
"9:what is sum 1+8?":9,
"10:what is sum 1+9?":10,
"11:what is sum 1+10?":11,
"12:what is sum 1+11":12,
"13:what is sum 1+12?":13,
"14:what is sum 1+13?":14,
"15:what is sum 1+14?":15,
"16:what is sum 1+15?":16,
"17:what is sum 1+16?":17,
"18:what is sum 1+17?":18,
"19:what is sum 1+18?":19,
"20:what is sum 1+19?":20}
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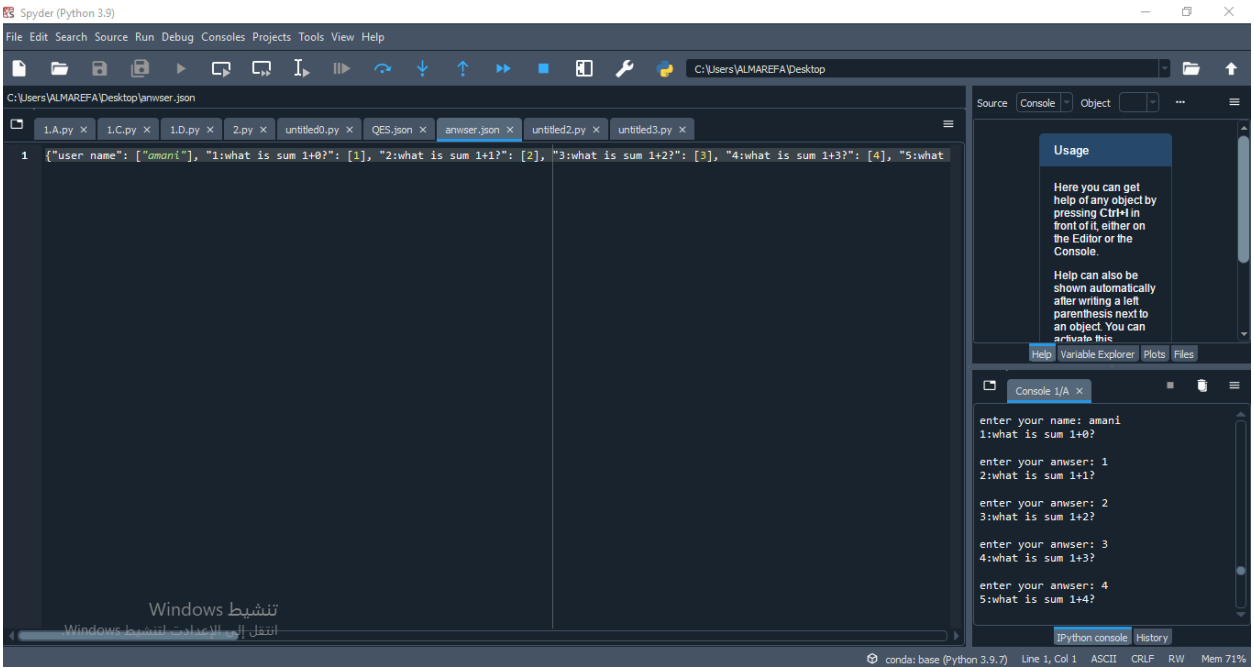
19:what is sum 1+18?
enter your anwser: 20
20:what is sum 1+19?
enter your anwser: 20
{'user name': ['amani'], '1:what is sum 1+0?': [1], '2:what is sum 1+1?': [2], '3:what is sum 1+2?': [3], '4:what is sum 1+3?': [4], '5:what is sum 1+4?': [5], '6:what is sum 1+5?': [6], '7:what is sum 1+6?': [7], '8:what is sum 1+7?': [8], '9:what is sum 1+8?': [9], '10:what is sum 1+9?': [10], '11:what is sum 1+10?': [12], '12:what is sum 1+11': [13], '13:what is sum 1+12?': [14], '14:what is sum 1+13?': [15], '15:what is sum 1+14?': [16], '16:what is sum 1+15?': [17], '17:what is sum 1+16?': [18], '18:what is sum 1+17?': [19], '19:what is sum 1+18?': [20], '20:what is sum 1+19?': [20]}
In [8]:
IPython console
History
conda: base (Python 3.9.7)
Line 14, Col 23
ASCII
CRLF
RW
Mem 72%
تنشيط Windows
انتقل إلى الإعدادات لتنشيط Windows.


Spyder (Python 3.9)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\ALMAREFA\Desktop
C:\Users\ALMAREFA\Desktop\anwser.json
1.A.py
1.C.py
1.D.py
2.py
untitled0.py
QES.json
anwser.json
untitled2.py
untitled3.py
1 {"user name": ["amani"], "1:what is sum 1+0?": [1], "2:what is sum 1+1?": [2], "3:what is sum 1+2?": [3], "4:what is sum 1+3?": [4], "5:what
Source
Console
Object
Usage
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Help
Variable Explorer
Plots
Files
Console 1/A
enter your name: amani
1:what is sum 1+0?
enter your anwser: 1
2:what is sum 1+1?
enter your anwser: 2
3:what is sum 1+2?
enter your anwser: 3
4:what is sum 1+3?
enter your anwser: 4
5:what is sum 1+4?
IPython console
History
conda: base (Python 3.9.7)
Line 1, Col 1
ASCII
CRLF
RW
Mem 71%