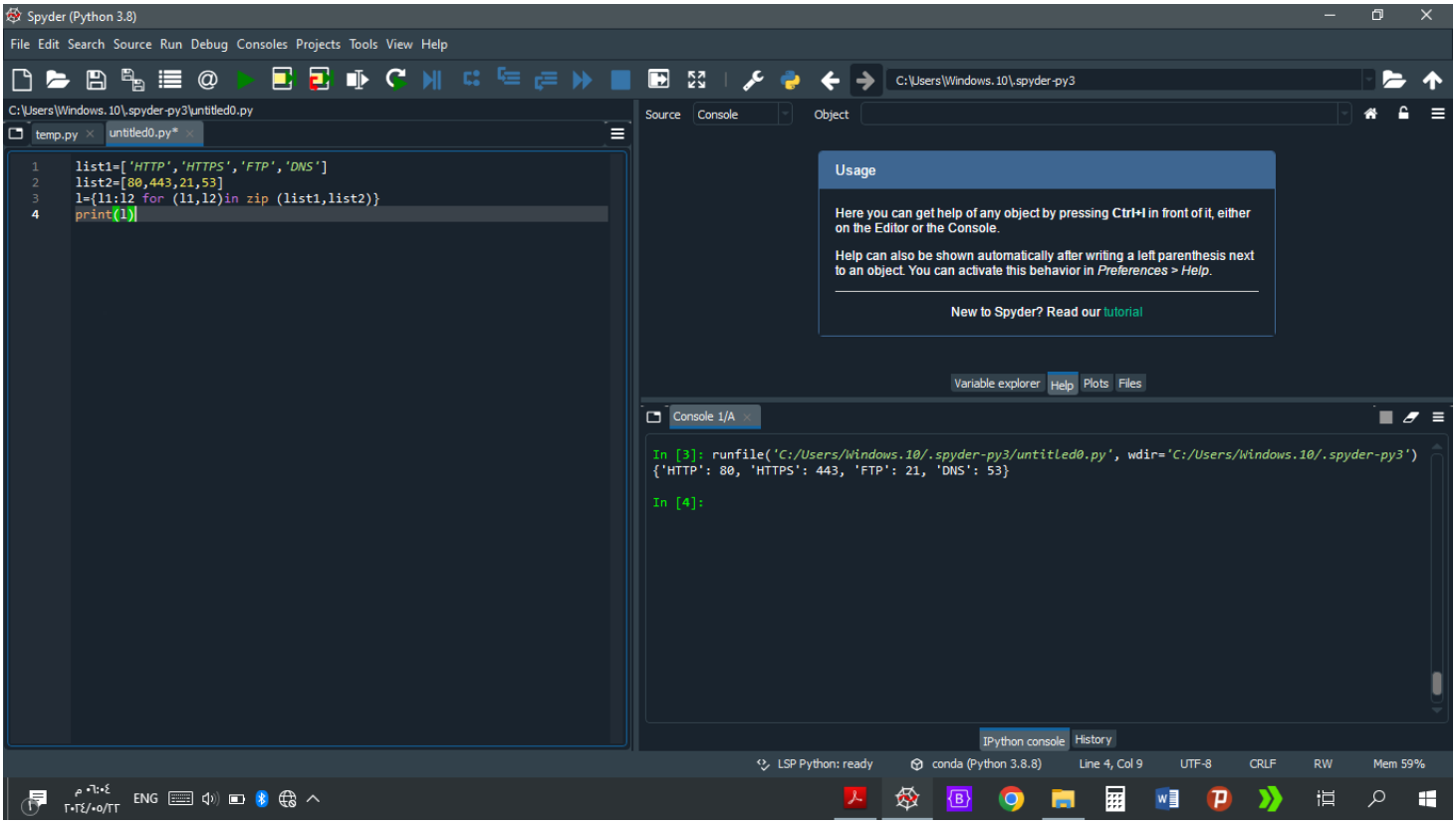
الجمهورية العربية السورية
جامعة تشرين
كلية الهندسة الميكانيكية والكهربائية
قسم الاتصالات

الطالبة: غوى عزيز عبدالله الرقم الجامعي: 2913

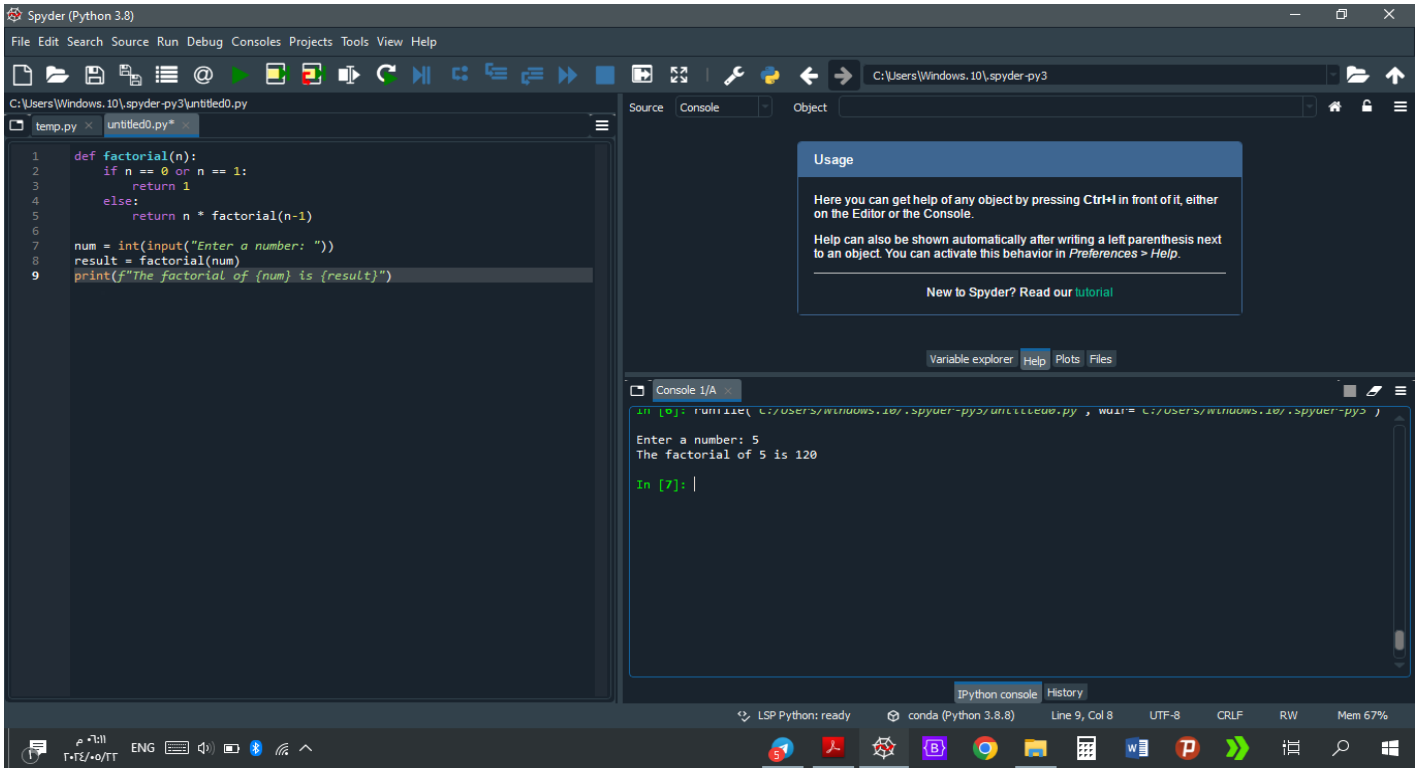
برمجة شبكات

Homework 1

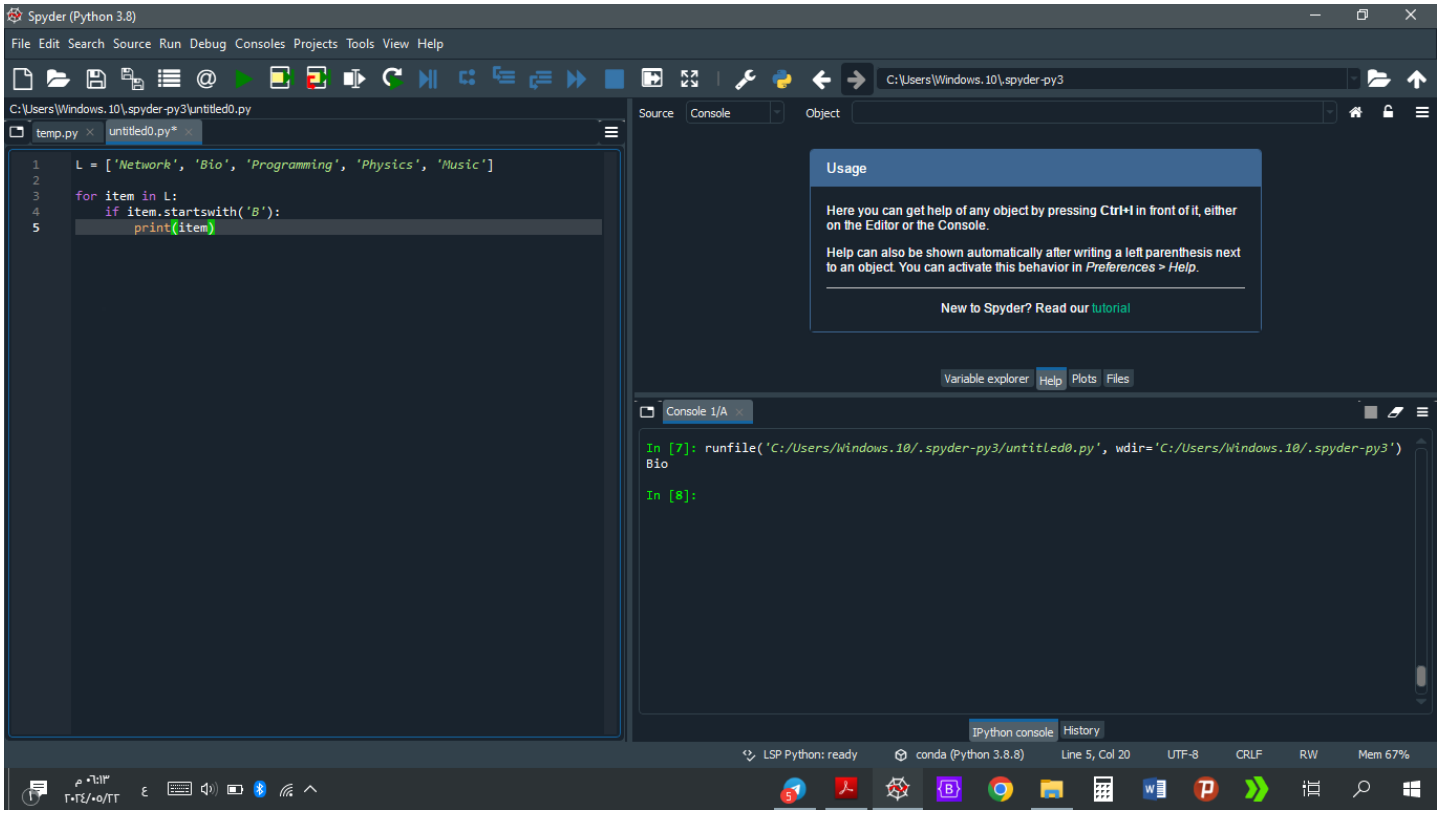
Question 1-A



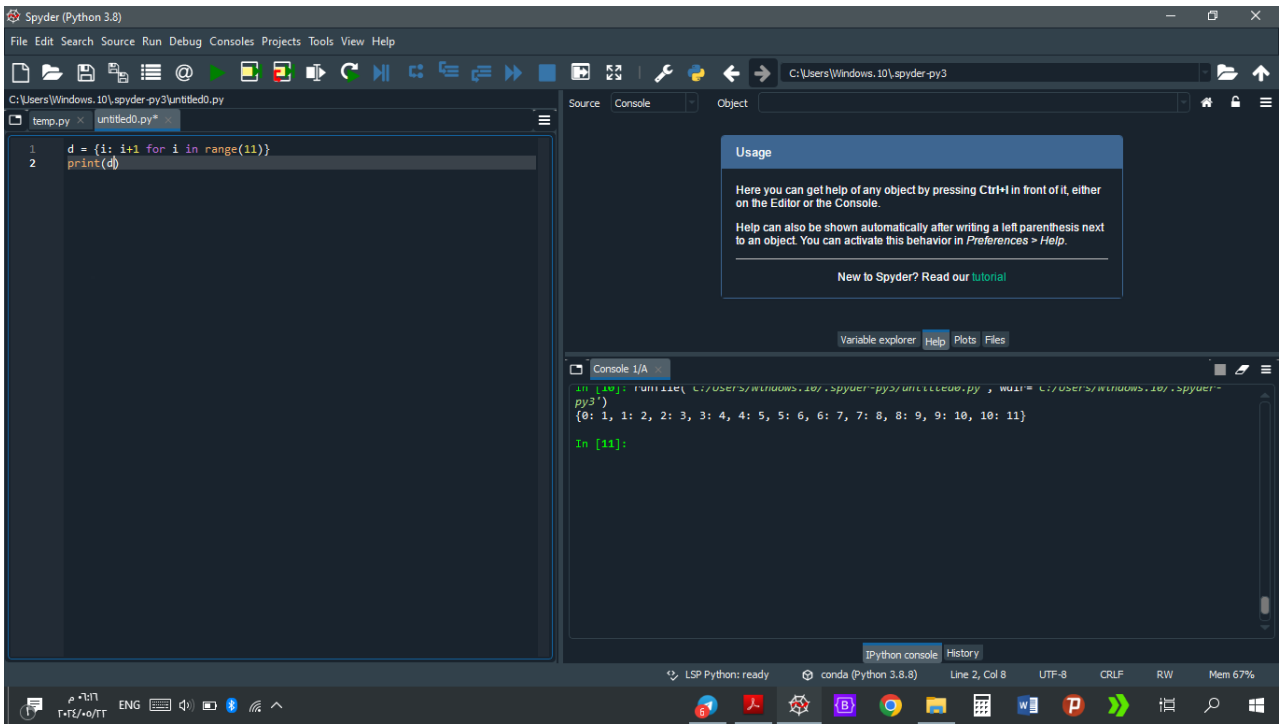
Question 1-B



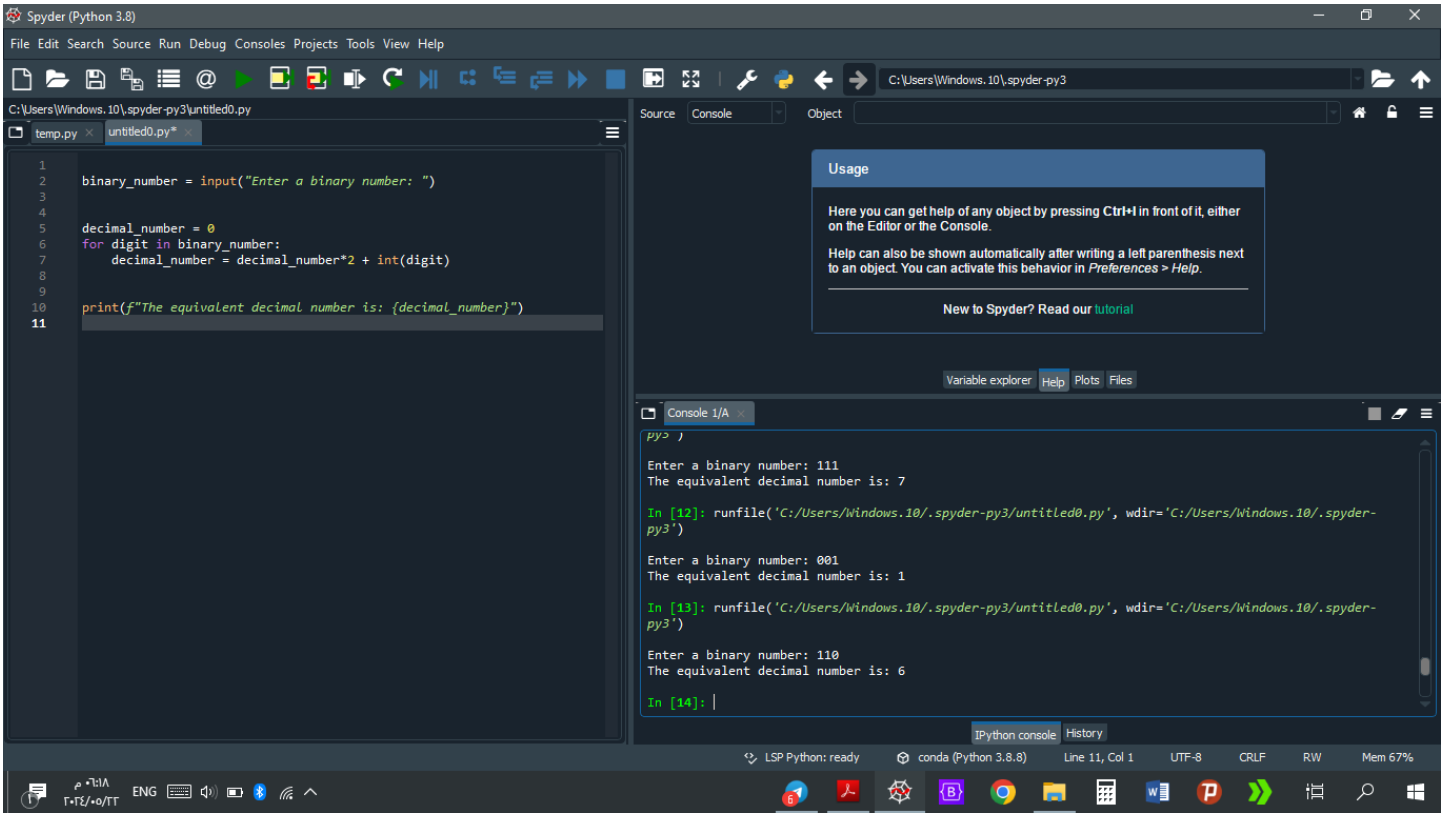
Question 1-c



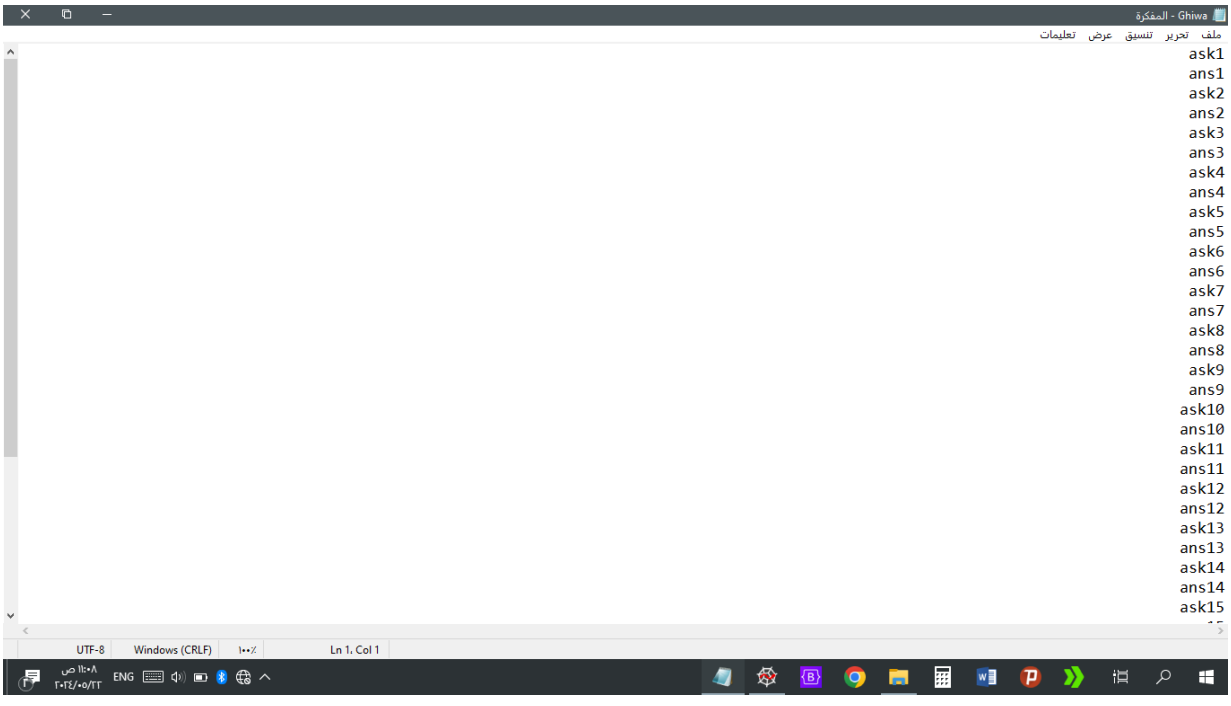
Question 1-D

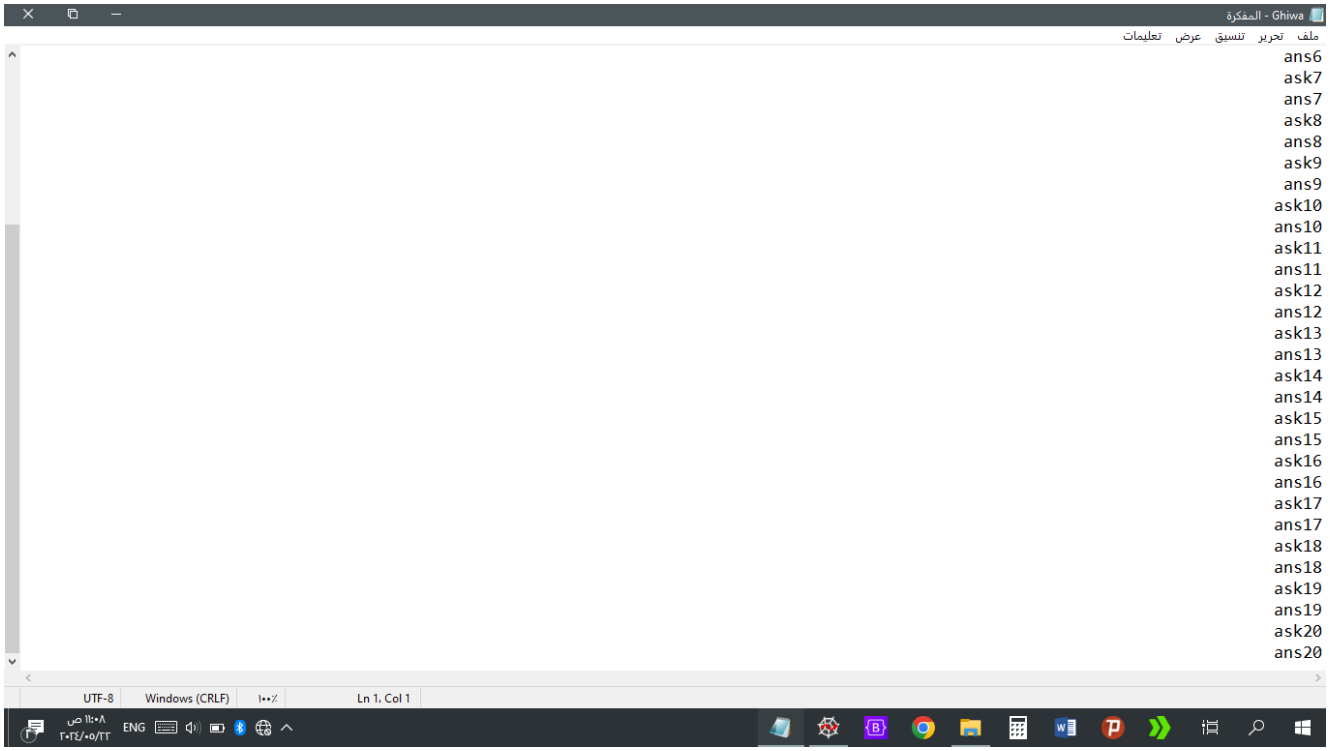


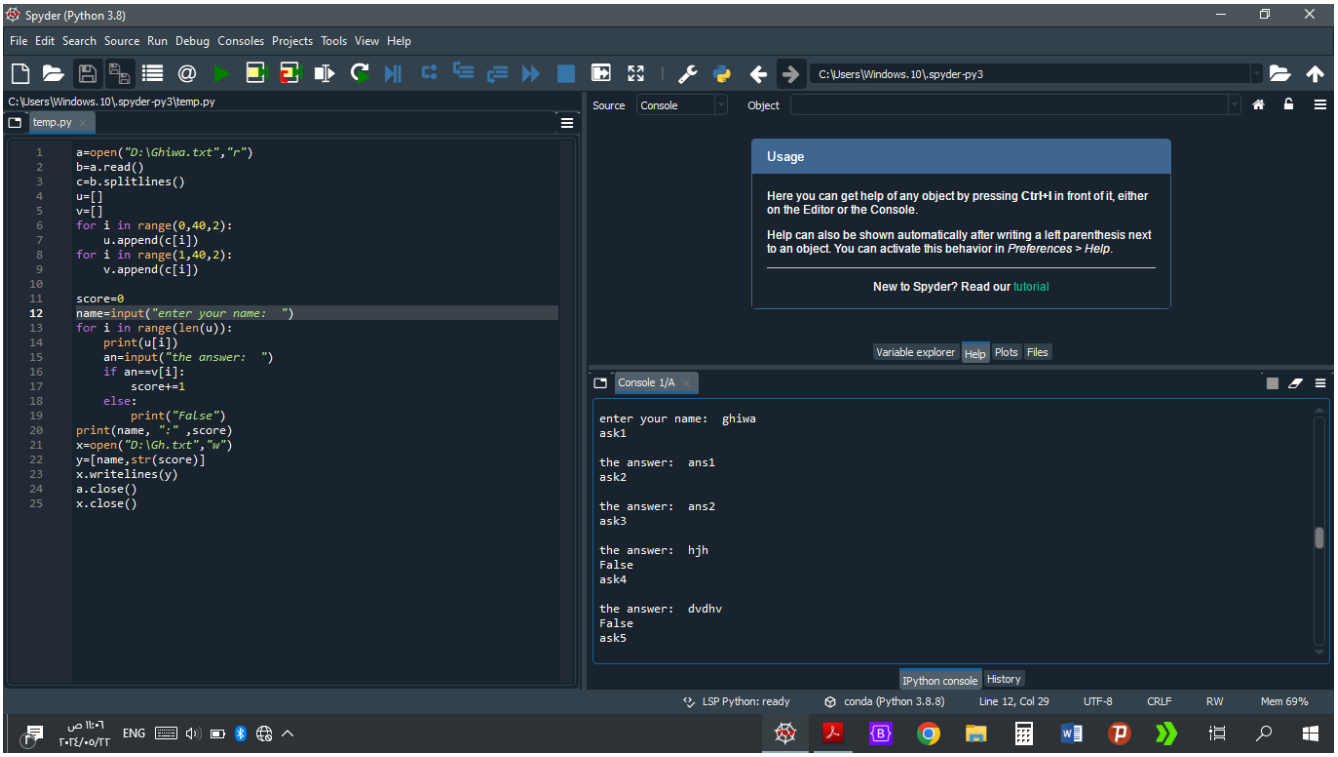
Question 2

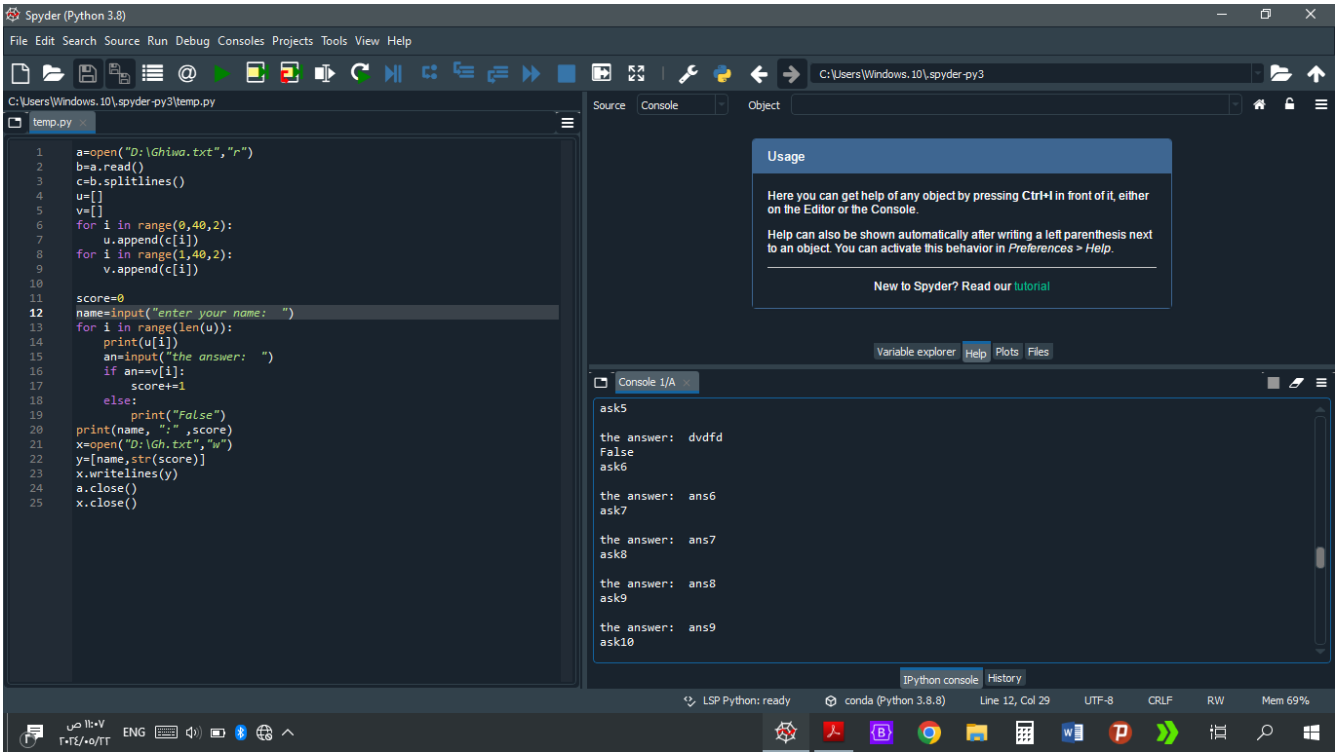


Question 3




Ghiwa - المفكرة
ملف تحرير تنسيق عرض تعليمات
ans6
ask7
ans7
ask8
ans8
ask9
ans9
ask10
ans10
ask11
ans11
ask12
ans12
ask13
ans13
ask14
ans14
ask15
ans15
ask16
ans16
ask17
ans17
ask18
ans18
ask19
ans19
ask20
ans20
UTF-8
Windows (CRLF)
Ln 1, Col 1


Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows.10\.spyder-py3\temp.py
temp.py
a=open("D:\Ghiwa.txt","r")
b=a.read()
c=b.splitlines()
u=[]
v=[]
for i in range(0,40,2):
u.append(c[i])
for i in range(1,40,2):
v.append(c[i])
score=0
name=input("enter your name: ")
for i in range(len(u)):
print(u[i])
an=input("the answer: ")
if an==v[i]:
score+=1
else:
print("False")
print(name, ":" ,score)
x=open("D:\Gh.txt","w")
y=[name,str(score)]
x.writelines(y)
a.close()
x.close()
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.
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in Preferences > Help.
New to Spyder? Read our tutorial
Variable explorer Help Plots Files
Console 1/A
enter your name: ghiwa
ask1
the answer: ans1
ask2
the answer: ans2
ask3
the answer: hjh
False
ask4
the answer: dvdhv
False
ask5
IPython console History
LSP Python: ready
conda (Python 3.8.8)
Line 12, Col 29
UTF-8
CRLF
RW
Mem 69%


Spyder (Python 3.8)
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else:
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x=open("D:\Gh.txt","w")
y=[name,str(score)]
x.writelines(y)
a.close()
x.close()
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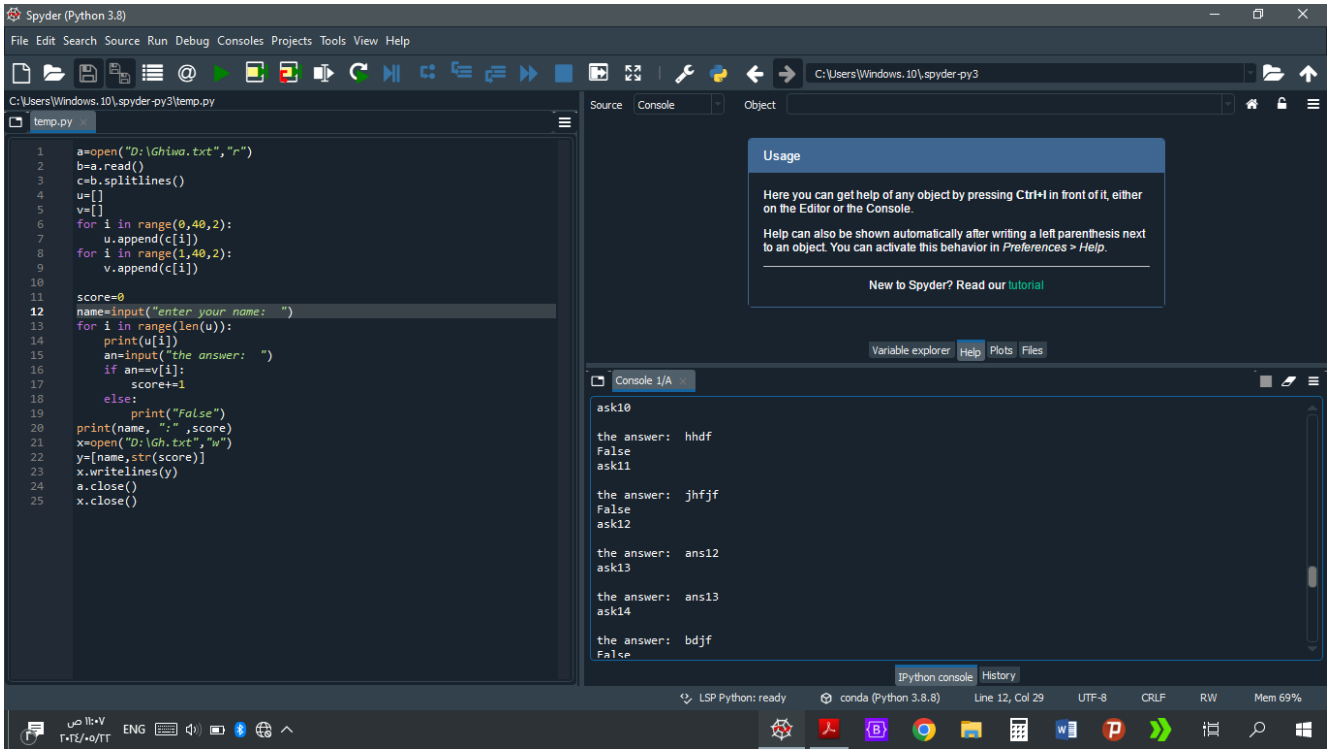
New to Spyder? Read our tutorial
Console 1/A
ask5
the answer: dvdfd
False
ask6
the answer: ans6
ask7
the answer: ans7
ask8
the answer: ans8
ask9
the answer: ans9
ask10
LSP Python: ready
conda (Python 3.8.8)
Line 12, Col 29
UTF-8
CRLF
RW
Mem 69%


Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
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an=input("the answer: ")
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score+=1
else:
print("False")
print(name, ":" ,score)
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x.writelines(y)
a.close()
x.close()
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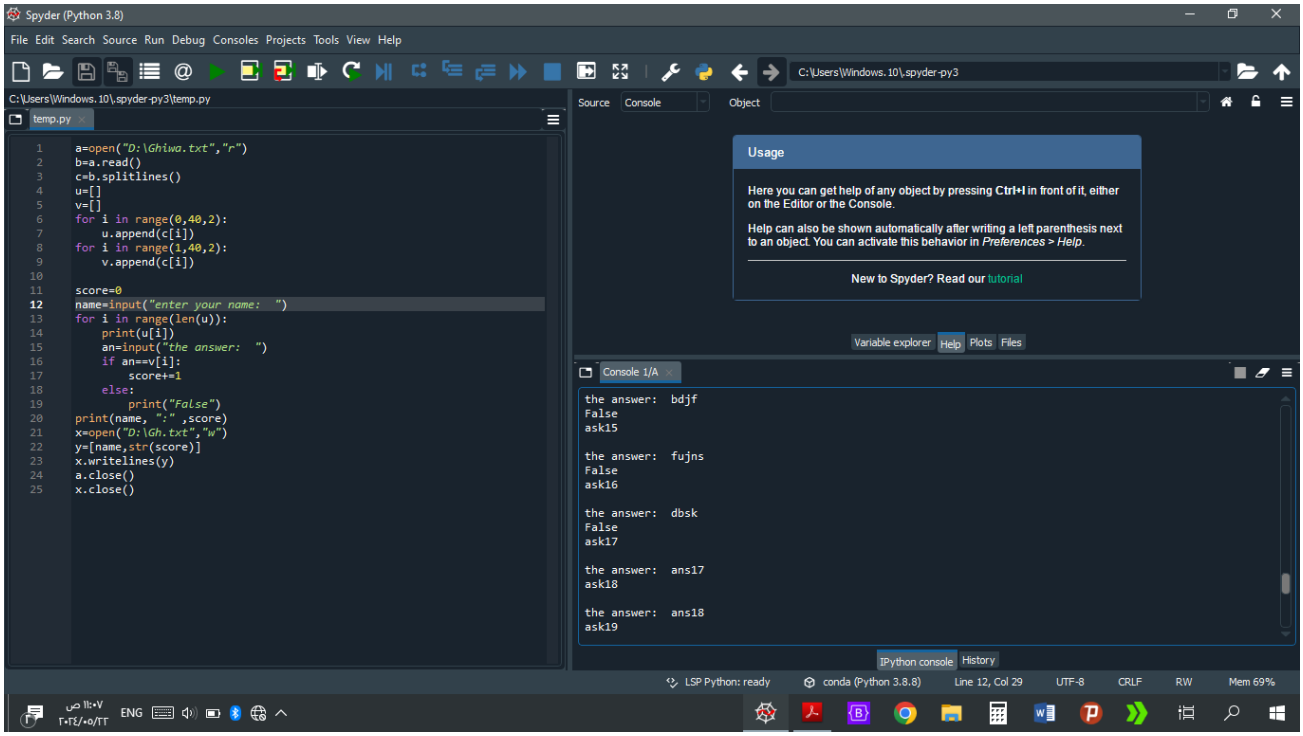
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in Preferences > Help.
New to Spyder? Read our tutorial
Console 1/A
ask10
the answer: hhdf
False
ask11
the answer: jhfjf
False
ask12
the answer: ans12
ask13
the answer: ans13
ask14
the answer: bdjf
False
LSP Python: ready
conda (Python 3.8.8)
Line 12, Col 29
UTF-8
CRLF
RW
Mem 69%


Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows.10\.spyder-py3
C:\Users\Windows.10\.spyder-py3\temp.py
temp.py
a=open("D:\Ghiwa.txt","r")
b=a.read()
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u=[]
v=[]
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u.append(c[i])
for i in range(1,40,2):
v.append(c[i])
score=0
name=input("enter your name: ")
for i in range(len(u)):
print(u[i])
an=input("the answer: ")
if an==v[i]:
score+=1
else:
print("False")
print(name, ":" ,score)
x=open("D:\Gh.txt","w")
y=[name,str(score)]
x.writelines(y)
a.close()
x.close()
Source Console Object
Usage
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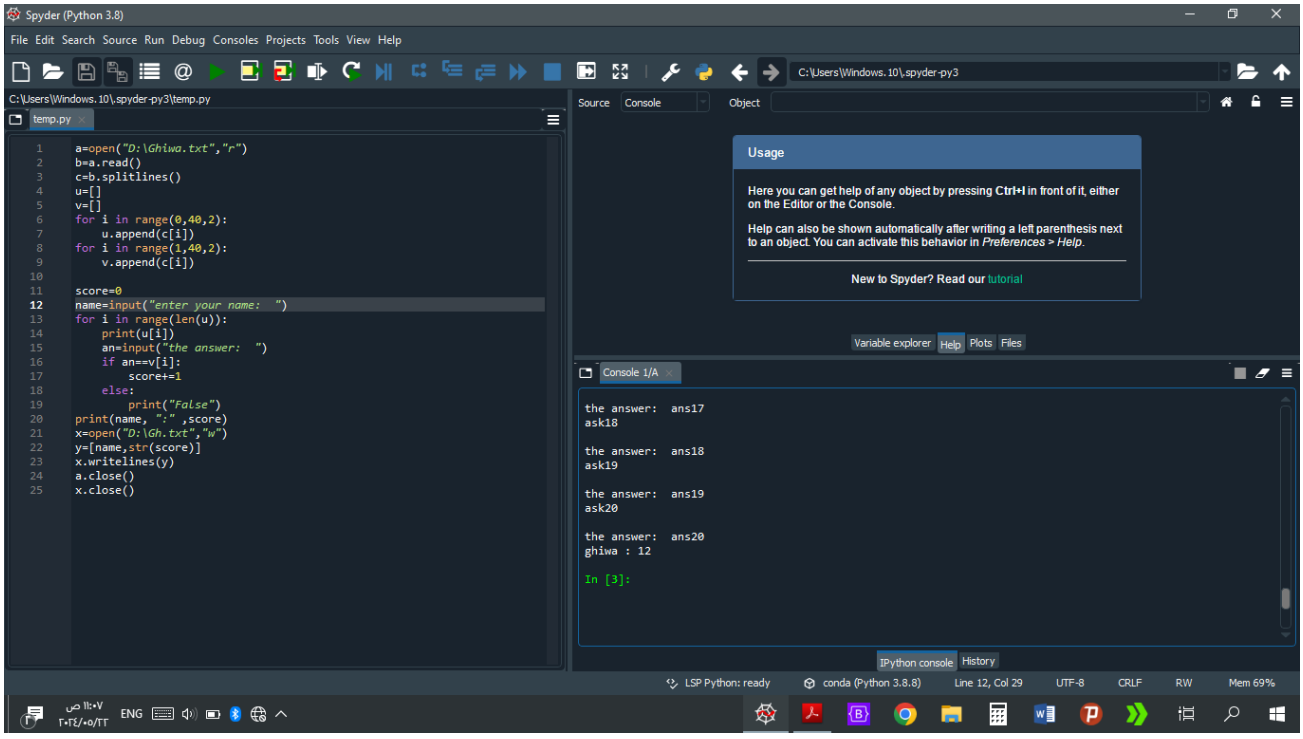
New to Spyder? Read our tutorial
Variable explorer Help Plots Files
Console 1/A
the answer: bdjf
False
ask15
the answer: fujns
False
ask16
the answer: dbsk
False
ask17
the answer: ans17
ask18
the answer: ans18
ask19
IPython console History
LSP Python: ready
conda (Python 3.8.8)
Line 12, Col 29
UTF-8
CRLF
RW
Mem 69%
ENG


Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows.10\.spyder-py3
C:\Users\Windows.10\.spyder-py3\temp.py
temp.py
a=open("D:\Ghiwa.txt","r")
b=a.read()
c=b.splitlines()
u=[]
v=[]
for i in range(0,40,2):
u.append(c[i])
for i in range(1,40,2):
v.append(c[i])
score=0
name=input("enter your name: ")
for i in range(len(u)):
print(u[i])
an=input("the answer: ")
if an==v[i]:
score+=1
else:
print("False")
print(name, ":" ,score)
x=open("D:\Gh.txt","w")
y=[name,str(score)]
x.writelines(y)
a.close()
x.close()
Source Console Object
Usage
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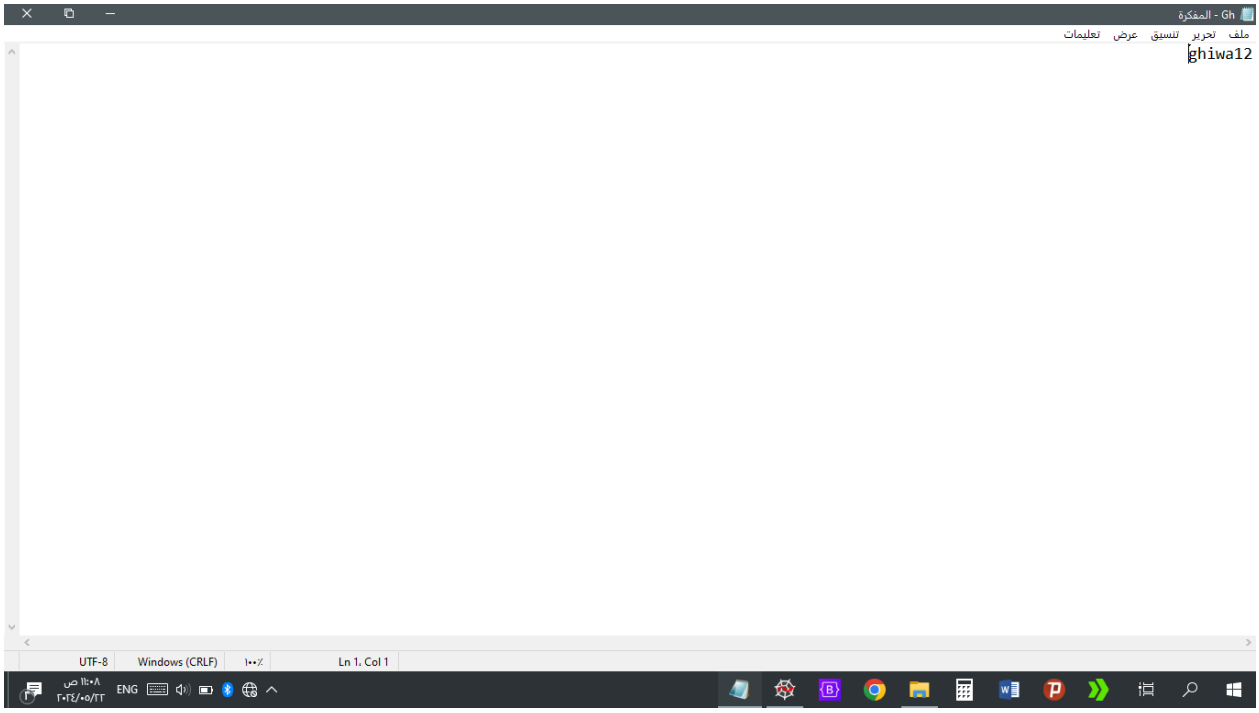
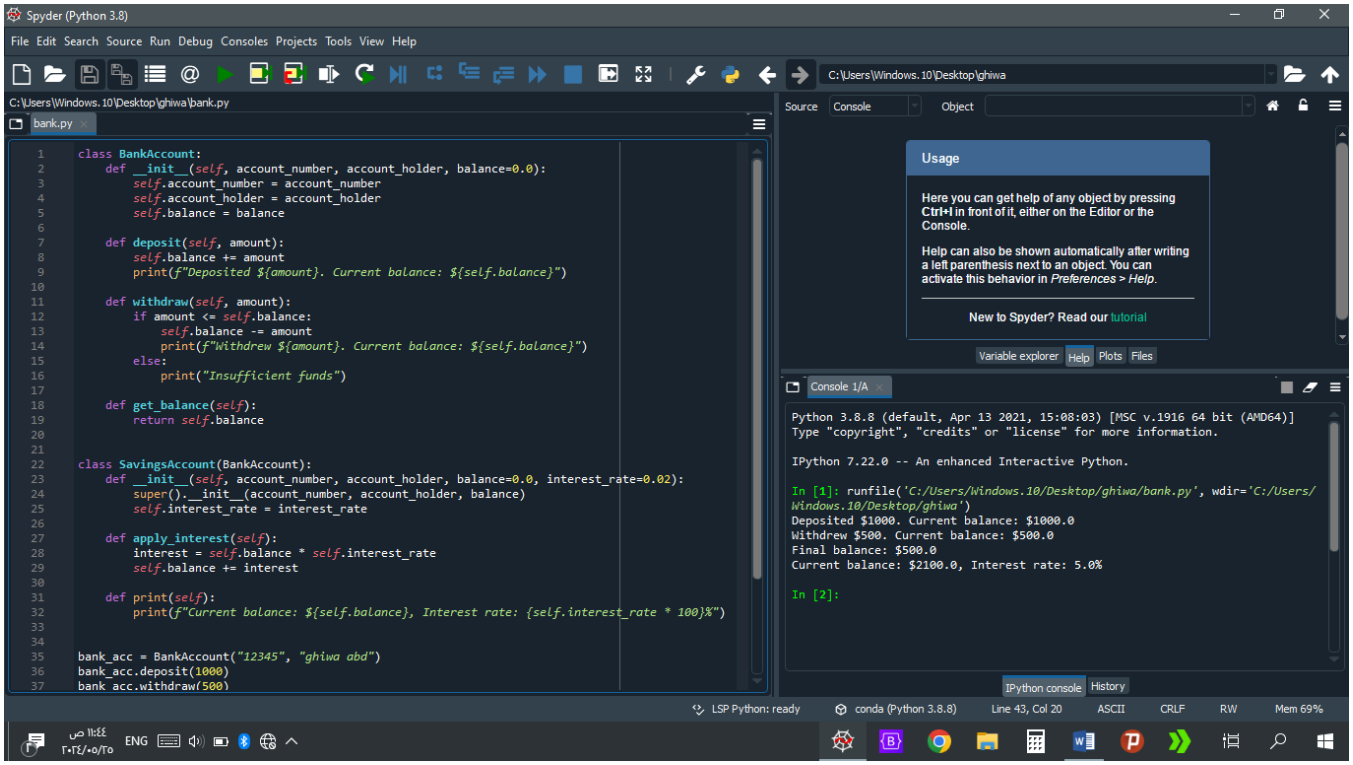
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in Preferences > Help.
New to Spyder? Read our tutorial
Variable explorer Help Plots Files
Console 1/A
the answer: ans17
ask18
the answer: ans18
ask19
the answer: ans19
ask20
the answer: ans20
ghiwa : 12
In [3]:
IPython console History
LSP Python: ready
conda (Python 3.8.8)
Line 12, Col 29
UTF-8
CRLF
RW
Mem 69%
ENG


Gh - المفكرة
ملف تحرير تنسيق عرض تعليمات
ghiwa12
UTF-8
Windows (CRLF)
١٠٠٪
Ln 1, Col 1
ENG
١١:٠٨ ص
٢٠٢٤/٠٥/٢٢

Question 4


Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows.10\Desktop\ghiwa\bank.py
bank.py
class BankAccount:
def __init__(self, account_number, account_holder, balance=0.0):
self.account_number = account_number
self.account_holder = account_holder
self.balance = balance
def deposit(self, amount):
self.balance += amount
print(f"Deposited ${amount}. Current balance: ${self.balance}")
def withdraw(self, amount):
if amount <= self.balance:
self.balance -= amount
print(f"Withdrew ${amount}. Current balance: ${self.balance}")
else:
print("Insufficient funds")
def get_balance(self):
return self.balance
class SavingsAccount(BankAccount):
def __init__(self, account_number, account_holder, balance=0.0, interest_rate=0.02):
super().__init__(account_number, account_holder, balance)
self.interest_rate = interest_rate
def apply_interest(self):
interest = self.balance * self.interest_rate
self.balance += interest
def print(self):
print(f"Current balance: ${self.balance}, Interest rate: {self.interest_rate * 100}%")
bank_acc = BankAccount("12345", "ghiwa abd")
bank_acc.deposit(1000)
bank_acc.withdraw(500)
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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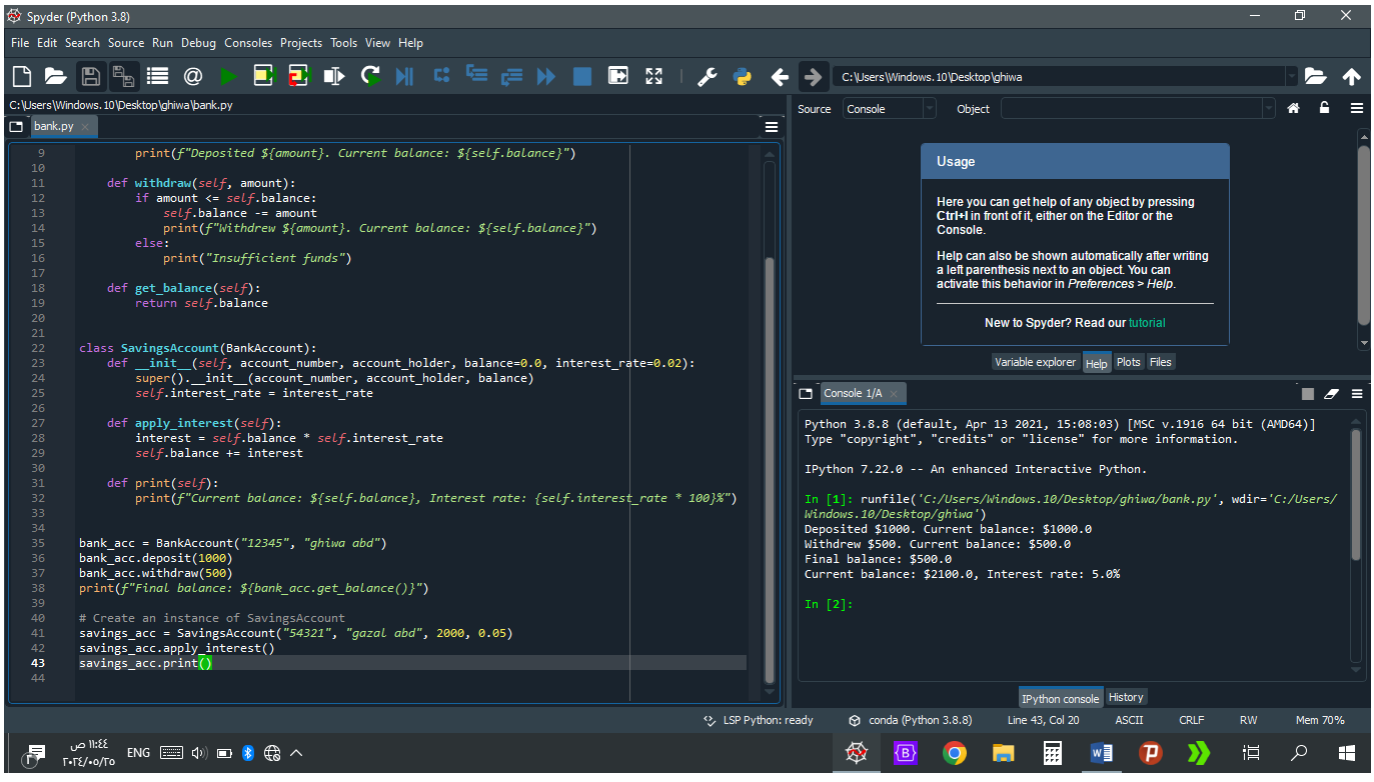
New to Spyder? Read our tutorial
Variable explorer Help Plots Files
Console 1/A
Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.
IPython 7.22.0 -- An enhanced Interactive Python.
In [1]: runfile('C:/Users/Windows.10/Desktop/ghiwa/bank.py', wdir='C:/Users/Windows.10/Desktop/ghiwa')
Deposited $1000. Current balance: $1000.0
Withdrew $500. Current balance: $500.0
Final balance: $500.0
Current balance: $2100.0, Interest rate: 5.0%
In [2]:
IPython console History
LSP Python: ready
conda (Python 3.8.8)
Line 43, Col 20
ASCII
CRLF
RW
Mem 69%


Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Windows.10\Desktop\ghiwa\bank.py
bank.py
print(f"Deposited ${amount}. Current balance: ${self.balance}")
def withdraw(self, amount):
if amount <= self.balance:
self.balance -= amount
print(f"Withdrew ${amount}. Current balance: ${self.balance}")
else:
print("Insufficient funds")
def get_balance(self):
return self.balance
class SavingsAccount(BankAccount):
def __init__(self, account_number, account_holder, balance=0.0, interest_rate=0.02):
super().__init__(account_number, account_holder, balance)
self.interest_rate = interest_rate
def apply_interest(self):
interest = self.balance * self.interest_rate
self.balance += interest
def print(self):
print(f"Current balance: ${self.balance}, Interest rate: {self.interest_rate * 100}%")
bank_acc = BankAccount("12345", "ghiwa abd")
bank_acc.deposit(1000)
bank_acc.withdraw(500)
print(f"Final balance: ${bank_acc.get_balance()}")
# Create an instance of SavingsAccount
savings_acc = SavingsAccount("54321", "gazal abd", 2000, 0.05)
savings_acc.apply_interest()
savings_acc.print()
Usage
Here you can get help of any object by pressing Ctrl+I in front of it, either on the Editor or the Console.
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in Preferences > Help.
New to Spyder? Read our tutorial
Variable explorer Help Plots Files
Console 1/A
Python 3.8.8 (default, Apr 13 2021, 15:08:03) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.
IPython 7.22.0 -- An enhanced Interactive Python.
In [1]: runfile('C:/Users/Windows.10/Desktop/ghiwa/bank.py', wdir='C:/Users/Windows.10/Desktop/ghiwa')
Deposited $1000. Current balance: $1000.0
Withdrew $500. Current balance: $500.0
Final balance: $500.0
Current balance: $2100.0, Interest rate: 5.0%
In [2]:
IPython console History
LSP Python: ready
conda (Python 3.8.8)
Line 43, Col 20
ASCII
CRLF
RW
Mem 70%