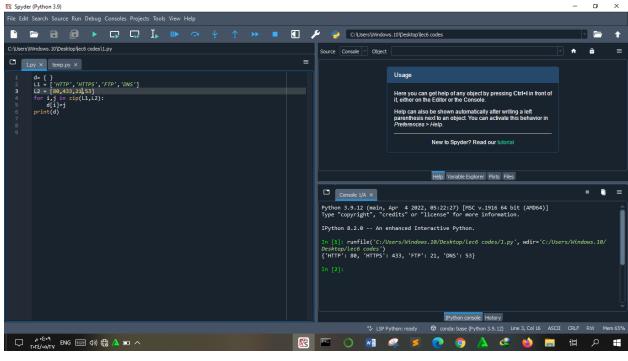
Name: GHAZAL HABIB

Number: 2424

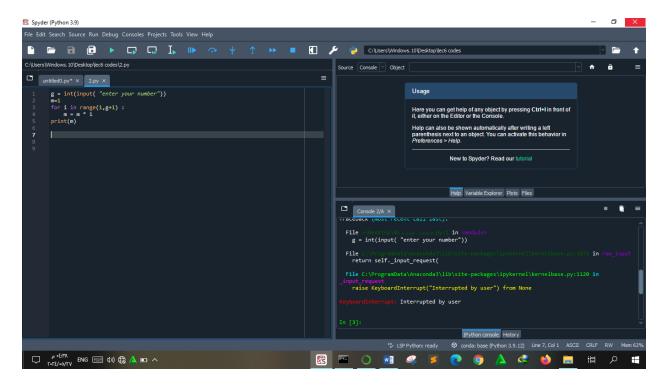
Submitted to GitHub:

Question 1:

A-If you have two lists, L1=['HTTP','HTTPS','FTP','DNS'] L2=[80,443,20,53], convert it to generate this dictionary d={'HTTP':80,'HTTPS':443,'FTP':21,'DNS':53}



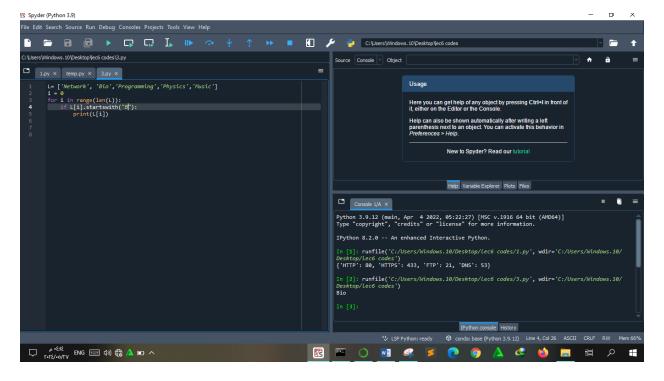
B- Write a Python program that calculates the factorial of a given number entered by user.



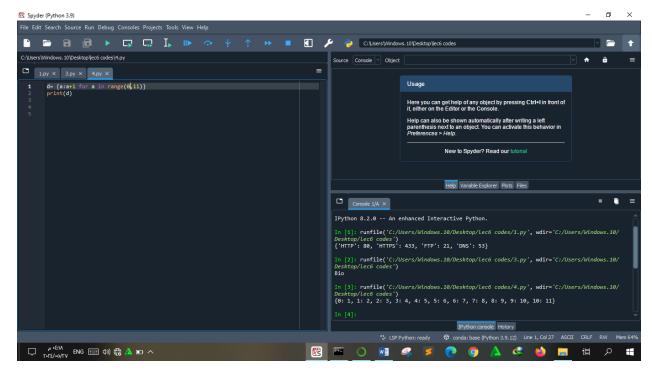
C- L=['Network', 'Bio', 'Programming', 'Physics', 'Music']

In this exercise, you will implement a Python program that reads the items of the previous list and identifies the items that starts with 'B' letter, then print it on screen.

Tips: using loop, 'Len ()', starts with() method



D: Using Dictionary comprehension, Generate this dictionary d={0:1,1:2,2:3,3:4,4:5,5:6,6:7,7:8,8:9,9:10,10:11}



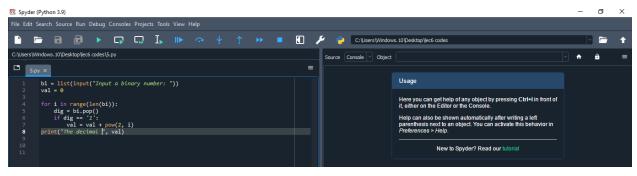
Question 2:

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.



Input a binary number: 10011 The decimal 19

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

finally computes and prints user results and store user name and result in separate file csv or json file

```
File Edit Search Source Run Debug Consoles Projects Tools View Help
                         \Box I_{\bullet}
              8
                                         c:\Users\Windows.10\Desktop\6\مجلد جديد\py
untitled0.py ×
            import json
q = { }
            s = 0
            number=1
           g = open("questions.txt",'r')
q = json.load(g)
            g.close()
            print("Enter t , f ")
name = input("Enter your name: ")
            for i in q:
                 print("Question",number,": ", i)
answer = input("The answer is ")
                 if answer == q[i] :
    s = s + 1
                 number = number + 1
            result={name:s}
           n = open("score.txt",'w')
result = json.dump(result,n)
n.close()
   31
          ۹۰:0۰ م
                    ENG 📟 🗘 🖒 🗅 🧥
```

```
score - Notepad

File Edit Format View Help

{"GHazal ": 2}
```

Question 4: Object-Oriented Programming - Bank Class Define a class BankAccount with the following attributes and methods:

Attributes: account_number (string), account_holder (string), balance (float, initialized to 0.0)

Methods:deposit(amount), withdraw(amount), get_balance()

- Create an instance of BankAccount, Perform a deposit of \$1000, Perform a withdrawal of \$500.
- Print the current balance after each operation.
- Define a subclass SavingsAccount that inherits from BankAccount and adds interest_rate Attribute and apply_interest() method that Applies interest to the balance based on the interest rate.

And Override print() method to print the current balance and rate.

- Create an instance of SavingsAccount , and call apply_interest() and print() functions

