

Syrian Arab Republic

Lattakia - Tishreen University

Department of Communication and  
electrical engineering

5<sup>th</sup> , Network Programming : Homework  
No1



الجمهورية العربية السورية

اللاذقية - جامعة تشرين

كلية الهندسة الكهربائية والميكانيكية

قسم هندسة الاتصالات والإلكترونيات

السنة الخامسة: وظيفة 1 برمجة شبكات

Name: \_\_\_\_\_, Number: \_\_\_\_\_, Submitted To GitHub: \_\_\_\_\_

## 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 d={'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.

### Notes "Important"

- Homework is accepted as **well explained Pdf & "Nicely Formatted Code"** "You can do all job in one notebook then print as pdf or "copy and paste" on word document "use" then convert into pdf with extra info "

-You have to show:

**Question number >> Question itself >> your answer code with explanations > your Result** "you can use this doc as template"

-You Have to Show code execution as Screenshots from your laptop or phone".

-Apply your full name and number, Homework number to pdf.

-**Similar Solutions** will **rejected** and not accepted.

- The Homework is accepted until the date of "28/5/2023", if after >> mark=mark- (current\_date -28/5/2023)\*0.3

- upload your code to your **GitHub Account**, "PDF + Code"

```
target_words = set()

with codecs.open(path, 'r', encoding='utf-8') as f:
    lines = f.read().split('\n')

    for l, line in enumerate(lines[0:len(lines)-4]):
        print(l, '>>>', line)
        if line.isdigit():
            print(lines[l])
            mylist=[lines[l] , lines[l+1], lines[l+2], lines[l+3], '\n']
            all_texts.append(mylist)
            print(mylist)
            print('*****')

    try:
        os.mkdir('out', 0o666)
    except OSError as error:
        pass
```