

Syrian Arab Republic

Lattakia - Tishreen University

Department of Communication and
electrical engineering

5th, Network Programming : Homework
No1



الجمهورية العربية السورية

اللاذقية - جامعة تشرين

كلية الهندسة الكهربائية والميكانيكية

قسم هندسة الاتصالات والإلكترونيات

السنة الخامسة: وظيفة ١ برمجة شبكات

Name: نهال أكرم علي, Number: 2439, Submitted To GitHub: _____

First Network Programming Homework

Question 1: Python Basics?

A-Define a list that contain the names of graduated students” 5 students at least”:

Create a program that accept student name and prints if the user is graduated or not.

```
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

===== RESTART: C:/Users/user/Desktop/السؤال الأول A.py =====
enter namenihal
nihal the user is graduated
```

```
File Edit Format Run Options Window Help
l=['nihal','reem','joood','leen','lama']
name=input('enter name')
for i in range(5):
    if name in l:
        print(name,'the user is graduated')
        break
    else:
        print('the user is failed')
        break
```

B- Generate and print a list of odd numbers from 1 to 1000.

```
DLE Shell 3.10.4
Edit Shell Debug Options Window Help
AMD64] on win32
Type "help", "copyright", "credits" or "license()" for more information.

===== RESTART: C:/Users/user/Desktop/السؤال الأول A.py =====
enter namenihal
nihal the user is graduated

===== RESTART: C:/Users/user/Desktop/السؤال الأول B.py =====
[1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375, 377, 379, 381, 383, 385, 387, 389, 391, 393, 395, 397, 399, 401, 403, 405, 407, 409, 411, 413, 415, 417, 419, 421, 423, 425, 427, 429, 431, 433, 435, 437, 439, 441, 443, 445, 447, 449, 451, 453, 455, 457, 459, 461, 463, 465, 467, 469, 471, 473, 475, 477, 479, 481, 483, 485, 487, 489, 491, 493, 495, 497, 499, 501, 503, 505, 507, 509, 511, 513, 515, 517, 519, 521, 523, 525, 527, 529, 531, 533, 535, 537, 539, 541, 543, 545, 547, 549, 551, 553, 555, 557, 559, 561, 563, 565, 567, 569, 571, 573, 575, 577, 579, 581, 583, 585, 587, 589, 591, 593, 595, 597, 599, 601, 603, 605, 607, 609, 611, 613, 615, 617, 619, 621, 623, 625, 627, 629, 631, 633, 635, 637, 639, 641, 643, 645, 647, 649, 651, 653, 655, 657, 659, 661, 663, 665, 667, 669, 671, 673, 675, 677, 679, 681, 683, 685, 687, 689, 691, 693, 695, 697, 699, 701, 703, 705, 707, 709, 711, 713, 715, 717, 719, 721, 723, 725, 727, 729, 731, 733, 735, 737, 739, 741, 743, 745, 747, 749, 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779, 781, 783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809, 811, 813, 815, 817, 819, 821, 823, 825, 827, 829, 831, 833, 835, 837, 839, 841, 843, 845, 847, 849, 851, 853, 855, 857, 859, 861, 863, 865, 867, 869, 871, 873, 875, 877, 879, 881, 883, 885, 887, 889, 891, 893, 895, 897, 899, 901, 903, 905, 907, 909, 911, 913, 915, 917, 919, 921, 923, 925, 927, 929, 931, 933, 935, 937, 939, 941, 943, 945, 947, 949, 951, 953, 955, 957, 959, 961, 963, 965, 967, 969, 971, 973, 975, 977, 979, 981, 983, 985, 987, 989, 991, 993, 995, 997, 999]
```

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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 'P' letter**, then print it on screen.

Tips: using loop, list 'len ()' method

D: Using Dictionary comprehension, Generate this dictionary d={1:1,2:4,3:9,4:16,5:25,6:36,7:42,8:64,9:81,10:100}

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Question 2: Convert from decimal to binary

Write a Python program that **converts a decimal number into its equivalent binary number**.

The program should start reading the decimal number from the user. Then the binary equivalent number must be calculated. Finally, the program must display the equivalent binary number on the screen.

Tips: use empty list to hold binary number, use loop, use % operator, use // operator, use list append method, reverse the list.

```
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>>>
===== RESTART: C:/Users/user/Desktop/السؤال الثاني/بايثون.py =====
N=4
the binary number= 100
>>>
```

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.



Name: نهال أكرم علي, Number: 2439, Submitted To GitHub: _____

السؤال الثالث.py - C:/Users/user/Desktop/السؤال الثالث.py (3.10.4)

File Edit Format Run Options Window Help

```
import random
def quiz():
    score=0
    questionsRight=0
    fileName='f:\\ph.csv'
    quizFile = open(fileName,"r")
    quizData = quizFile.readlines()
    random.shuffle(quizData)
    questionno=1
    for i in range(20):
        x = quizData[i].strip()
        data = x.split(",")
        question = data[0]
        CorrectAnswer = data[1]

        print("Question #",questionno)
        print(question)
        answer = input("What is your answer? ")
        if answer == CorrectAnswer:
            print("Correct!")
            score=score+1
            questionsRight=questionsRight+1
            questionno = questionno+1

        else:
            print("Incorrect.")
            print("Correc answer should be: "+CorrectAnswer)
            questionno = questionno+1
        print()

    totalScore = (score / 10) * 100
    print("You got ",score," questions right, and a score of ",totalScore,"%")
quiz()
```

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IDLE Shell 3.10.4 - C:/Users/user/Desktop/السؤال الثالث/بايثون.py (3.10.4)

File Edit Shell Debug Options Window Help

```
What is your answer? 1
Correct!

Question # 14
Is 7 a prime number?
What is your answer? yes
Correct!

Question # 15
what is the average of 7 and 9?
What is your answer? 8
Correct!

Question # 16
Is 9 a prime number?
What is your answer? no
Correct!

Question # 17
what is the sum of 30 and 45?
What is your answer? 47
Incorrect.
Correc answer should be: 75

Question # 18
Is 13 a prime number?
What is your answer? yes
Correct!

Question # 19
what is the average of 8 and 12?
What is your answer? 10
Correct!

Question # 20
Is 25 a prime number?
What is your answer? no
Correct!

You got 14 questions right, and a score of 140.0 %.
```

>>>