

Name: NawarALdarf, Number: 1301, Submitted To
Syrian Arab Republic
GitHub: _____
Lattakia - Tishreen University
Department of Communication and
electrical engineering
5th, Network Programming : Homework
No1



الجمهورية العربية السورية
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كلية الهندسة الكهربائية والميكانيكية
قسم هندسة الاتصالات والإلكترونيات
السنة الخامسة: وظيفة 1 برمجة شبكات

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 3.7.3 Shell
File Edit Shell Debug Options Window Help
Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> s="sss"
>>> print(s)
sss
>>>
===== RESTART: Shell =====
>>> list=["ayham","gmal","kinda","haya","tala"]
>>>
===== RESTART: Shell =====
>>>
===== RESTART: C:/Users/nawar/Documents/question 1 A.py =====
enter name:jmal
enter name:
===== RESTART: C:/Users/nawar/Documents/question 1 A.py =====
enter name:jmal
you are graduated
enter name:sara
your name not found
enter name:
```

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

Tips: “List Comprehension”

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>>>
===== RESTART: C:/Users/nawar/Documents/question 1 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]
>>> |
```

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

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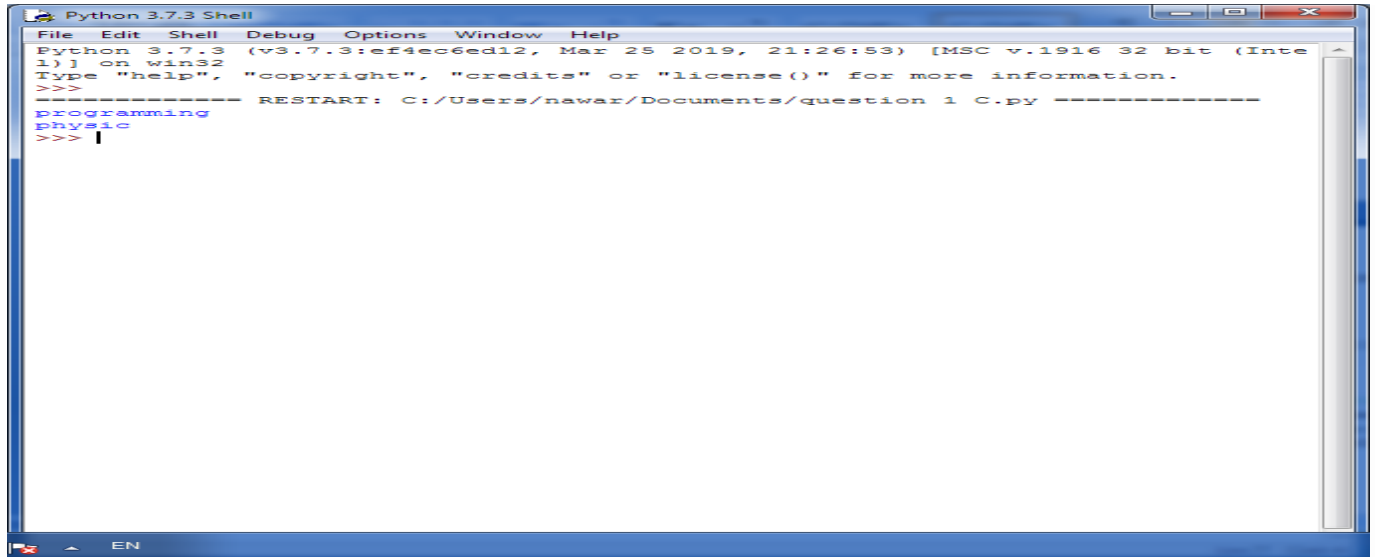


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D: Using Dictionary comprehension, Generate this dictionary $d=\{1:1,2:4,3:9,4:16,5:25,6:36,7:42,8:64,9:81,10:100\}$

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>>>
===== RESTART: C:/Users/nawar/Documents/question 1 D.py =====
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
>>> |
```

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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Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/nawar/Documents/question 2.py =====
n=300
the binary number = 100101100
>>> |
```

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.

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>>>
===== RESTART: G:\Q3.py =====
the question 1
Question8?
your answer is:8
your answer...true
the question 2
Question17?
your answer is:17
your answer...true
the question 3
Question5?
your answer is:8
your answer...false
your score : 20.0
the question 4
Question10?
your answer is:
```

Notes

- Homework is accepted as **wellexplained** 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 "**12/5/2022**", if after >> **mark=mark- (current_date -12/5/2022)*0.3**
- **An Extra Marks** if you upload your code to your **GitHub Account**, "**PDF + Code**"

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```
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
```