



Name: _زيزفون رحال_ , Number: _2443_, Submitted To GitHub: _yes_

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.

The Ansvar is :

```

first question.py - C:\Users\Techno.Home\Desktop\python\first question.py (3.7.3)
File Edit Format Run Options Window Help
list=['zeina','ali','reem','samar','dalal']
stdname=input('enter student name')
for i in range(len(list)):
    if stdname in list:
        print(stdname , 'well done student graduated')
        break
    else:
        print(stdname, 'unfortunately the student did not graduate')
        break

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.
>>>
===== RESTART: C:\Users\Techno.Home\Desktop\python\first question.py =====
enter student nameali
ali well done student graduated
>>>
===== RESTART: C:\Users\Techno.Home\Desktop\python\first question.py =====
enter student namesiba
siba unfortunately the student did not graduate
>>> |
    
```

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

Tips: "List Comprehension"

The Answer is:

```
second question.py - C:/Users/Techno.Home/Desktop/python/second question.py (3.7.3)
File Edit Format Run Options Window Help
list2=[z for z in range(1,1000) if z%2!=0 ]
print(list2)

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Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/Techno.Home/Desktop/python/second question.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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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

The Answer is:

```

C-question.py - C:/Users/Techno.Home/Desktop/python/C-question.py (3.7.3)
File Edit Format Run Options Window Help
L=['Network', 'Math', 'Programming', 'Physics', 'Music']
for i in range(len(L)):
    if L[i][0]=='P':
        print(L[i])

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>>>
===== RESTART: C:/Users/Techno.Home/Desktop/python/C-question.py =====
Programming
Physics
>>>
  
```

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}

The Answer is:

```

D-question.py - C:/Users/Techno.Home/Desktop/python/D-question.py (3.7.3)
File Edit Format Run Options Window Help
d={z:z**2 for z in range(1,11) }
print (d)

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.
>>>
===== RESTART: C:/Users/Techno.Home/Desktop/python/D-question.py =====
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 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.

The Answer is:

```
File Edit Format Run Options Window Help
Z=int(input("Z="))
x=res=0
while Z!=0:
    res=res+(Z%2)*(10**x)
    Z=Z//2
    x=x+1
print(f"the binary number= {res}")

Python 3.7.3 Shell
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Type "help", "copyright", "credits" or "license()" for more information.
>>>
RESTART: C:/Users/Techno.Home/Desktop/python/Question 2-decimal to binary.py
Z=8
the binary number= 1000
>>>
RESTART: C:/Users/Techno.Home/Desktop/python/Question 2-decimal to binary.py
Z=55
the binary number= 110111
>>>
```



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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.

The answer:

```
Questions.py - D:/Questions.py (3.7.3)
File Edit Format Run Options Window Help
import random
def quiz():
    score=0
    questionsRight=0
    fileName='d:\\Questions.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("Correct 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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```
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>>>
===== RESTART: D:/Questions.py =====
Question # 1
What is the result of (1+1)?
What is your answer? 2
Correct!

Question # 2
What is the color of the sky?
What is your answer? blue
Correct!

Question # 3
What is the result of (1111 XOR 1100)?
What is your answer? 1111
Incorrect.
Correct answer should be: 0011

Question # 4
What is the result of (((24/3)*1)/2)?
What is your answer? 4
Correct!

Question # 5
What is the result of (1100 and 1100)?
What is your answer? 1100
Correct!

Question # 6
Is the Earth round?
What is your answer? yes
Correct!

Question # 7
What is the result of (1010 or 1111)?
What is your answer? 1111
Correct!
```

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```
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Question # 8
What is the result of (100 and 000)?
What is your answer? 000
Correct!

Question # 9
The result of this equal ((3+5)*2)?
What is your answer? 6
Incorrect.
Correc answer should be: 16

Question # 10
What is the result of (3*3)?
What is your answer? 9
Correct!

Question # 11
what the avg of five numbers?
What is your answer? 1
Incorrect.
Correc answer should be: 1

Question # 12
What is the result of ((8*2)-3)?
What is your answer? 13
Correct!

Question # 13
Is this equal true (0/100)?
What is your answer? no
Correct!

Question # 14
Is the tomato healthy?
What is your answer? no
Incorrect.
Correc answer should be: yes

Question # 15
```


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```
Python 3.7.3 Shell
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Question # 14
Is the tomato healthy?
What is your answer? no
Incorrect.
Correc answer should be: yes

Question # 15
What is your country name?
What is your answer? syria
Incorrect.
Correc answer should be: Syria

Question # 16
What is the result of (4*5+7)?
What is your answer? 27
Correct!

Question # 17
What is the result of (2*1+8)?
What is your answer? 10
Correct!

Question # 18
What is the result of (5*3/3)?
What is your answer? 5
Correct!

Question # 19
What is the result of (2+1)?
What is your answer? 3
Correct!

Question # 20
What is the result of (13*2)?
What is your answer? 26
Correct!

You got 15 questions right, and a score of 150.0 %.
>>>
```