Syrian Arab Republic

Lattakia - Tishreen University

Department of Communication and electrical engineering

5th , Network Programming : Homework No1

الجمهورية العربية السورية

اللاذقية -جامعـــة تشريـــن

كلية الهندسة الكهربائية والميكانيكية

قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة1 برمجة شبكات

Name Number صبا علي علي: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

Answer:

```
# -*- coding: utf-8 -*-



"""
Spyder Editor

This is a temporary script file.
"""

l=['siba','ali','ammar','reem','nour']
sname= input('inter student name:')
for i in range(len(l)):
    if sname in l:
       print(sname,'this student graduated ')
       break
    else:
      print('this name didnt graduated')
      break
```

```
Windows.10/Desktop/اكواد وظيفة')

inter student name:ali
ali this student graduated

In [18]: runfile('C:/Users/Windows.10/Desktop/اكواد وظيفة/question A.py', wdir='C:/Users/
Windows.10/Desktop/اكواد وظيفة')

inter student name:nada
this name didnt graduated

In [19]:
```

B- Generate and print a list of odd numbers from 1 to 1000.
Tips: "List Comprehension"

Answer:

```
"""

l1=[s for s in range(1000) if s%2!=0]
print(l1)
```

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```
[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

Answer:

```
L=['networt','math','programming','physical','muisc']
for i in range(len(L)):
    if L[i][0]=='p':
     print(L[i])
```

```
In [24]: runfile('C:/Users/Windows.10/Desktop/وظيفة اكواد/untitled2.py', wdir='C:/Users/Windows.10/Desktop/اكواد
وظيفة')
programming
physical

In [25]:
```

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}

Answer:

```
d={x:x**2 for x in range(1,11)}
print (d)
```

```
In [26]: runfile('C:/Users/Windows.10/Desktop/وظيفة اكواد/untitled3.py', wdir='C:/Users/Windows.10/Desktop/اكواد
وظيفة')
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}

In [27]:
```

Name Number صبا علي علي:Submitted To GitHub:yes

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.
Answer:

```
s=int(input("s="))
a=res=0
while s!=0:
    res=res+(s%2)*(10**a)
    s=s//2
    a+=1
print (f"the binary number={res}")
```

```
s=23
the binary number=10111

In [29]:
```

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 Number صبا علي علي:Submitted To GitHub:yes

Answer:

```
# -*- coding: utf-8 -*-
import random
def quiz():
    score=0
    questionsRight=0
    fileName='e:\\file.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
quiz()
```

```
Incorrect.
Correc answer should be: 10 bottles

Question # 18
how many Thomas Edison's inventions?

What is your answer? klrll
Incorrect.
Correc answer should be: 1033

Question # 19
What is the name of the place where the bees live?

What is your answer? krkkrf
Incorrect.
Correc answer should be: cell

Question # 20
What is the current name of the city of Constantinople?

What is your answer? krfkrlr
Incorrect.
Correc answer should be: Istanbul

You got  1  questions right, and a score of  10.0 %.

In [7]:
```