Syrian Arab Republic

Lattakia - Tishreen University

Department of Communication and
electrical engineering

5th , Network Programming : Homework
No1

الجمهورية العربية السورية

اللاذقية ـ جامعــة تشريـــن

كلية الهندسة الكهربائية والميكانيكية

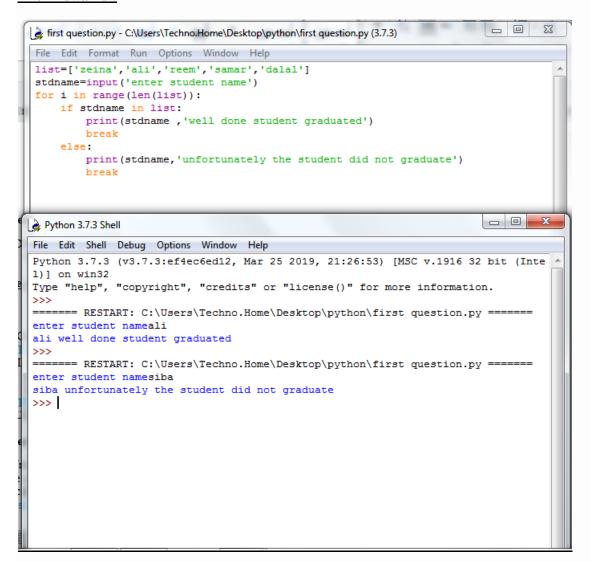قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة١ برمجة شبكات

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 Answar is :

```
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

Python 3.7.3 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Inte
l)] 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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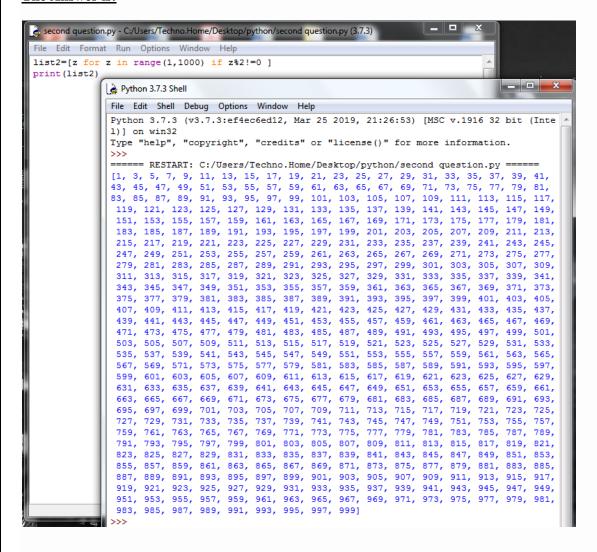5ᵗʰ , Network Programming : Homework No1

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

The Answer is:

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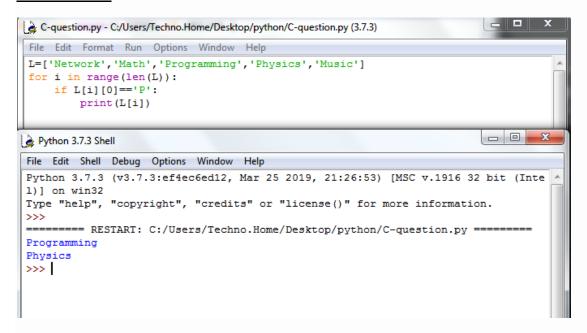قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة١ برمجة شبكات

Name:_زيزفون رحال, Number:___2443_____, Submitted To GitHub:___yes____

C- L=['Network' , 'Math' , 'Programming', 'Physics' , 'Music']
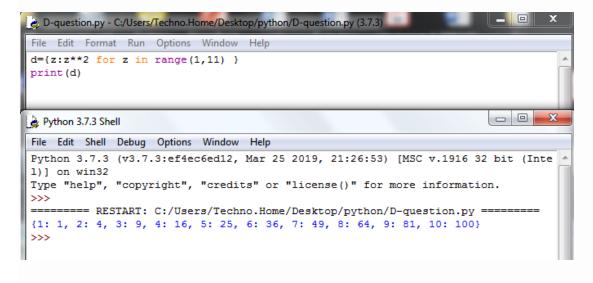
In this exercise, you will implement a Python program that reads the items of the previous list and identifies
the items that starts with 'P' letter, then print it on screen.

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

The Answer is:

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:

Dr. Mohannad Issa, Dr Jamal Khalifeh @ 27/4/2022   ٣

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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:

```
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 (v3.7.3:ef4ec6ed12, Mar 25 2019, 21:26:53) [MSC v.1916 32 bit (Inte
l)] on win32
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:

```python
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("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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السنة الخامسة: وظيفة۱ برمجة شبكات

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```
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: 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.
Correc 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!
```

Name:_زيزفون رحال, Number:____2443_____, Submitted To GitHub:___yes____

Python 3.7.3 Shell

File   Edit   Shell   Debug   Options   Window   Help

```
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
File  Edit  Shell  Debug  Options  Window  Help

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 %.
>>>
```