Lattakia - Tishreen University

Department of Communication and electrical engineering

 $\mathbf{5}^{\text{th}}$  , Network Programming: Homework No1



الجمهورية العربية السورية المدذقية - جامعة تشرين كلية الهندسة الكهربانية والميكانيكية قسم هندسة الاتصالات والالكترونيات السنة الخامسة: وظيفة 1 برمجة شبكات

Name: Mahran Moris Rezk

Collage number: 2302

GitHub link: https://github.com/Mahran1998/First-python-homework.git

## **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.

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| South | Sout
```

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

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

```
In [5]: # Q-1
# C-

L = ['Network', 'Math', 'Programming', 'Physics', 'Music']
char='P'
    def find_p(List, char):
        for i in List:
            if char in i:
                 print(i)
        find_p(L, 'P')

Programming
Physics
```

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**D**: Using Dictionary comprehension, Generate this dictionary  $d=\{1:1,2:4,3:9,4:16,5:25,6:36,7:49,8:64,9:81,10:100\}$ 

```
In [6]: # Q-1
# D-

d={1:0,2:0,3:0,4:0,5:0,6:0,7:0,8:0,9:0,10:0}
    for key, value in d.items():
        d[key]=value*value
    print(d)

{1: 0, 2: 0, 3: 0, 4: 0, 5: 0, 6: 0, 7: 0, 8: 0, 9: 0, 10: 0}
```

## 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.

```
In [7]: # Q-2

binary=[]
decimal = int(input ("inter your decimal number: "))
while(decimal>0):
    if decimal * 2 = 0:
        binary.append(0)
    else:
        binary.append(1)
    decimal //= 2
    binary.reverse()
    print("the equivalent binary number is: " + str(binary))

inter your decimal number: 10
the equivalent binary number is: [1, 0, 1, 0]
```

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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.

```
In [3]:

# Q-3

def new_file(file_name,ques_ans):
    ques_ans=[lines*\n" for line in ques_ans]
    Write.writelines(ques_ans)
    Write.writelines(ques_ans)
    Write.close()

quest_list = ["01: What is the author name of the book 'Age Of Renascence'?; ; Abn-alnafes",
    "02: What is the author name of the book 'In furiously happy'?; ; Paola Hokens",
    "03: What is the author name of the book 'In furiously happy'?; ; Paola Hokens",
    "04: What is the author name of the book 'The library at mount cha'?; ; Paola Hokens",
    "05: What is the author name of the book 'Stranger than we can imagine'?; ; John Higes',
    "06: What is the author name of the book 'In girl on the train'?; ; Paola Hokens",
    "09: What is the author name of the book 'The girl on the train'?; Paola Hokens",
    "09: What is the author name of the book 'The girl on the train'?; Paola Hokens",
    "09: What is the author name of the book 'The girl on the train'?; Randa Hokens",
    "09: What is the author name of the book 'The girl on the train'?; Randa Hokens",
    "09: What is the author name of the book 'The girl on the train'?; Randa Hokens",
    "09: What is the author name of the book 'The girl on the train'?; Randa Hokens",
    "09: What is the author name of the book 'Nimona'?; ; Roele Stevenson"]

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```

```
guest_list = work_file("Ques_Ans_file.text")

print("Hello and welcom to my game puzzle :)" + "\n" + "press enter to start" + "\n")
user_name = input("enter your name: ")
user_name_file = open("user_result.text", "w")
user_name_file = open("user_result.text", "a")

Score = 0

for i in range(0,11):
    ans = input(quest_list[i][0])
    if ans == quest_list[i][1]:
        Score = 1
        user_name_file.write("your ansser is correct!!".format(quest_list[i][0] , quest_list[i][1]))
    else:
        user_name_file.write("your ansser is Wrong!! and the correcy ansser is: ".format(quest_list[i][0] , quest_list[i][0])

user_name_file.close()

In []:
```

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```
enter your name: mahran

Hello and welcom to my game puzzle: )

Q1: What is the author name of the book 'Age Of Renascence'?:Abn-alnafes

Q2: What is the author name of the book 'The girl on the train'?:Paola Hokens

Q3: What is the author name of the book 'Th furiously Happy'?:Jeny Loson

Q4: What is the author name of the book 'The library at mount cha'?:Paola Hokens

Q5: What is the author name of the book 'Stranger than we can imagine'?:John Higes

Q6: What is the author name of the book 'Stranger than we can imagine'?:John Higes

Q6: What is the author name of the book 'Stranger than we can imagine'?:Paola Hokens

Q7: What is the author name of the book 'The girl on the train'?:Paola Hokens

Q8: What is the author name of the book 'Itake you'?:Eliza Kennedy

Q9: What is the author name of the book 'Our solus at Night';Kint haroph

Q10: What is the author name of the book 'Nimona'?:Nocle Stevenson

mahranyour anwser is correct!!your anwser is corre
```