Lattakia - Tishreen University

Department of Communication and electrical engineering

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



الجمهورية العربية السورية المدورية اللانقية جامعة تشريت كلية الهندسة الكهربائية والميكانيكية قسم هندسة الاتصالات والالكترونيات السنة الخامسة: وظيفة البرمجة شبكات

Name:Ali-Ibrahim , Number:2419 , Submitted To GitHub: Alih99z

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.

```
Question 1A.py > ...
      L=['ali', 'ammar', 'ahmad', 'shaban', 'batoul']
      x=input('Enter name :')
      if x in L:
           print("yes")
  6
           print("no")
 11
 12
 13
 17
PROBLEMS
                               DEBUG CONSOLE
           OUTPUT
                    TERMINAL
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ASUS\Desktop\python> & 'C:\Users\ASUS\AppData\Local\Progr
22.4.1\pythonFiles\lib\python\debugpy\launcher' '51671' '--' 'c:\Users
Enter name :ali
yes
```

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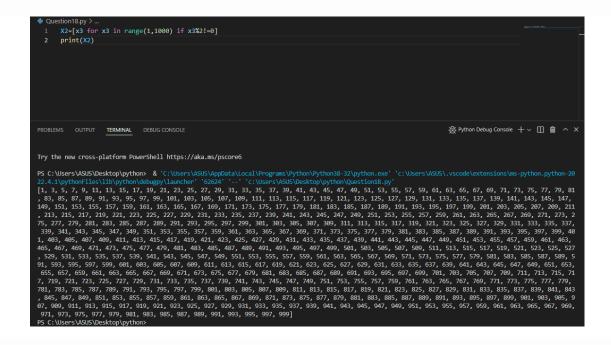


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B- Generate and print a list of odd numbers from 1 to 1000.

Tips: "List Comprehension"



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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

```
Question1C.py > ...
      L=['Network','Math','Programming','Physsics','Music']
      L1=[]
      for i in range(len(L)):
          if(L[i][0])=='P':
              L1.append(L[i])
  7
      print(L1)
PROBLEMS
          OUTPUT
                               DEBUG CONSOLE
                    TERMINAL
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ASUS\Desktop\python> & 'C:\Users\ASUS\AppData\Local\Programs\
22.4.1\pythonFiles\lib\python\debugpy\launcher' '62629' '--' 'c:\Users\ASU
['Programming', 'Physsics']
PS C:\Users\ASUS\Desktop\python>
```

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Name:Ali-Ibrahim\_\_\_\_\_\_, Nu 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.

```
Question 2.py > ...
      from msilib.schema import Binary
      binary=[]
      x1 = int(input("Enter the decimal number :"))
      x2 = x1
      while x2!=0:
          x3=x2%2
           binary.append(x3)
          x2=x2//2
      binary.reverse()
      x4=" "
11
      for i in binary:
12
13
           x4=x4+str(i)
      print("Decimil :",x1,"<===>","binary :",x4)
14
PROBLEMS
          OUTPUT
                              DEBUG CONSOLE
                   TERMINAL
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ASUS\Desktop\python> & 'C:\Users\ASUS\AppData\I
22.4.1\pythonFiles\lib\python\debugpy\launcher' '62639' '--
Enter the decimai number :10
Decimil: 10 <==> binary: 1010
PS C:\Users\ASUS\Desktop\python> ||
```

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Name:Ali-Ibrahim\_\_\_\_\_, Number:2419\_\_\_\_, Submitted To GitHub:\_Alih99z\_\_
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.

```
Question 3 > 🐡 Question 3-1.py > ...
      import json
      q1="""x+y=?:
      a.9
      q2="""x-y=?:
      a.1
      q3="""x+z=? :
     a.9
     q4="""x+y+z=?:
      a.14
      q5="""z+y-x=?:
      a.9
      q6="""x*y=? :
 17
      a.9
      q7="""y//x=?:
      a.1
      q8="""x*x*y?:
      a.80
      q9="""y*y*x? :
      b.100"""
      q10="""z*z*x? :
      a.144
      q11="""z-y-x?:
```

```
Question 3 > 💠 Question 3-1.py > ...
      a.144
      q11="""z-y-x?:
      q12="""z-x?:
      a.2
      q13="""z*y/x ? :
      a.7.5
      q14="""x*z/y?:
      q15="""y*y-x*x?:
      a.9
      q16="""x*x+z*y ? :
      a.46
      q17="""y*z-2x?:
      a.22
      b.10"""
      q18="""2x+2z-y?:
      a.1
      q19="""3x-z*y?:
      a.30
      q20="""z-4y+6x?:
      a.1
```

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Name:Ali-Ibrahim , Number:2419 , Submitted To GitHub: Alih99z

```
x=4 y=5 z=6
🕏 Question 3-2.py > ...
                                                              enter name :ali
      import json
                                                              x+y=?:
      from pprint import pprint
                                                              a.9
      print ("x=4","y=5","z=6")
                                                              b.10
      s=0
                                                              enter the answer a/b :a
      q1 = \{\}
                                                              correct answer, you got 1 point
      L1 = []
                                                              x-y=?:
      name1 = input("enter name :")
                                                              a.1
                                                              b.-1
      with open("q.json", "r") as f:
                                                              enter the answer a/b :b
          q=json.loads(f.read())
                                                              correct answer, you got 1 point
          for i in q:
                                                              X+Z=?:
              print(i)
                                                              a.9
              ans = input("enter the answer a/b :")
12
                                                              b.10
              L1.append(ans)
                                                              enter the answer a/b :b
              if ans ==q[i]:
                                                              correct answer, you got 1 point
                  print("correct answer, you got 1 point")
                                                              X+V+Z=?:
                                                              a.14
                  s=s+1
                                                              b.10
              else:
                                                              enter the answer a/b :a
                  print("wrong answer,you lost 1 point")
                                                              correct answer, you got 1 point
                  s=s-1
                                                              Z+y-x=?:
                                                              a.9
          q1 ={name1:L1}
                                                              b.7
          print(q1)
                                                              enter the answer a/b :b
23
                                                              correct answer, you got 1 point
          print("final score is :",s)
24
                                                              x*y=?:
                                                              a.9
                                                              b.20
                                                              enter the answer a/b :b
                                                              correct answer, you got 1 point
```

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Name: Ali-Ibrahim , Number: 2419 , Submitted To GitHub: Alih99z

```
enter the answer a/b :a
correct answer, you got 1 point
x*x*y:
a.80
b.10
enter the answer a/b :a
correct answer, you got 1 point
y*y*x?:
a.1
b.100
enter the answer a/b :b
correct answer, you got 1 point
z*z*x?:
a.144
b.10
enter the answer a/b :a
correct answer, you got 1 point
z-y-x?:
a.-3
b.10
enter the answer a/b :a
correct answer, you got 1 point
z-x?:
a.2
b.10
enter the answer a/b :a
correct answer, you got 1 point
z*y/x ? :
a.7.5
b.10
enter the answer a/b :a
correct answer, you got 1 point
```

```
enter the answer a/b :a
correct answer, you got 1 point
x*z/y?:
a.1
b.3.34
enter the answer a/b :b
correct answer, you got 1 point
v*v-x*x:
a.9
b.10
enter the answer a/b :a
correct answer, you got 1 point
x*x+z*y?:
a.46
b.10
enter the answer a/b :a
correct answer, you got 1 point
y*z-2x?:
a.22
b.10
enter the answer a/b :a
correct answer, you got 1 point
2x+2z-y?:
a.1
b.10
enter the answer a/b :b
correct answer, you got 1 point
3x-z*y?:
a.30
b.10
enter the answer a/b :b
wrong answer, you lost 1 point
```

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