Syrian Arab Republic

Lattakia - Tishreen University

Department of Communication and electrical engineering

5th , Network Programming : Homework No1

الجمهورية العربية السورية

اللاذقية -جامعــة تشريـــن

كلية الهندسة الكهربائية والميكانيكية

قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة1 برمجة شبكات

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السؤال الأول

A)-

```
import pandas as pd
d1 = {'ali':'graduated', 'sara':'graduated', 'samer':'not graduated', 'rana':'not graduated', 'yara':'graduated'}
while True:
    ename = input ('enter your name: ')
    if ename in d1.keys():
        if d1[ename]=='graduated':
            print (ename , 'graduated')
        else:
                print (ename , 'not graduated')
    else: print ('not found')
```

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:\Users\abd\Desktop\aaaaa\q1-a.py ================
enter your name: sara
sara graduated
enter your name: ali
ali graduated
enter your name: rana
rana not graduated
enter your name: abd
not found
enter your name:
```

-(B

```
l= [x for x in range (0,1000) if x % 2 != 0]
print (l)
```

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
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>>>
================ RESTART: C:\Users\abd\Desktop\aaaaa\q1-b.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, 6
9, 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, 2
35, 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, 3
95, 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, 5
55, 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, 7
15, 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, 8
75, 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']
for i in range(len(L)):
    if L[i].startswith('P'):
        print (L[i])
```

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```
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tel)] on win32
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>>>
================== RESTART: C:\Users\abd\Desktop\aaaaa\q1-c.py ================
Programming
Physics
>>>
```

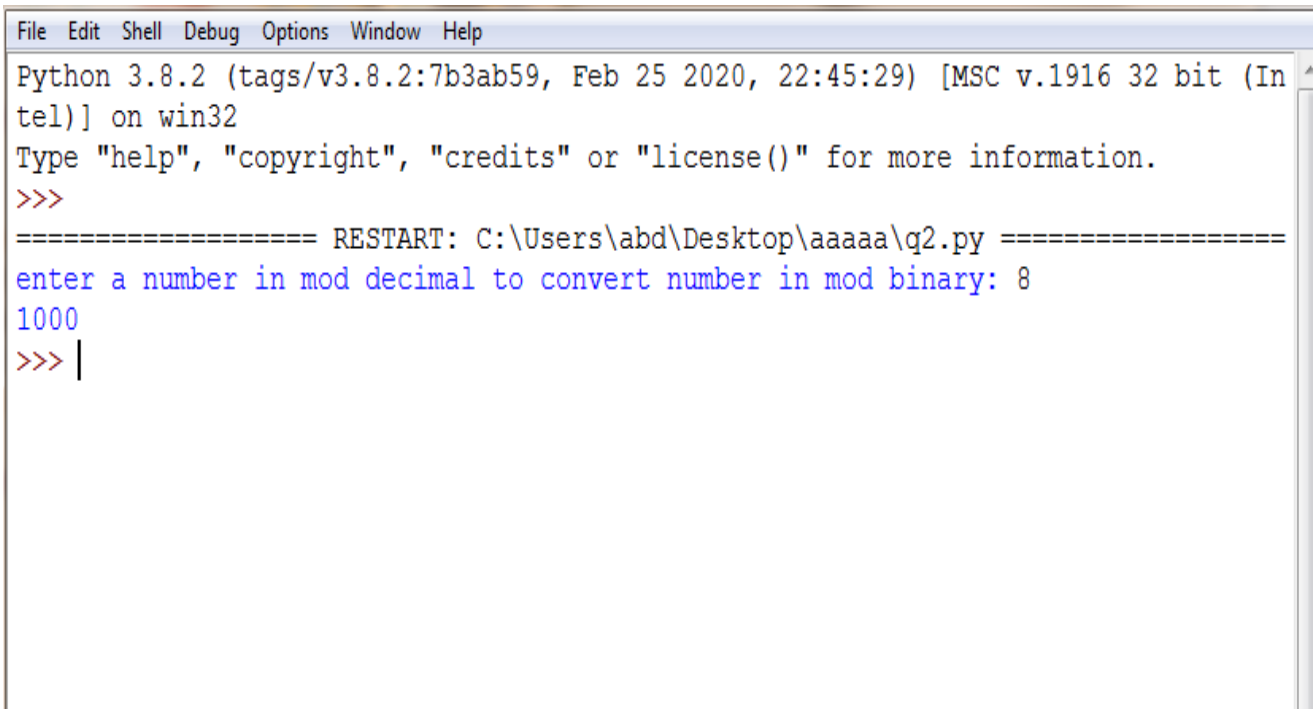
-(D

```
d4 = {x:x**2 for x in range (1,11)}
print(d4)
```

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (In
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: C:\Users\abd\Desktop\aaaaa\q1-d.py ==========
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
>>>
```

السؤال الثاني

```
x =int(input('enter a number in mod decimal to convert number in mod binary: '))
i=0
t=0
while True:
    t =t+((x % 2) * (10**i))
    x = x // 2
    i+= 1
    if x == 0:
        break
print (t)
```



السؤال الثالث

```
def main():
     print ('hi, please answer on 20 question by t or f')
     name= input('enter your name: ')

     questions(name)
def questions(n):
    c = 0
    questions=open("aa.txt",'r')
    R = [line.rstrip().split(',') for line in questions]
    for j in R:
        print(j[0])
        s=input()
        if s==j[1]:
            c+=1
    W=open("abd.txt","w")
    print (n + '  the correct answers:' + str (c))
    W.write(n + 'the correct answers:' + str(c))
    questions.close
    W.close
main()
```

```
Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 22:45:29) [MSC v.1916 32 bit (Intel)] on win32
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>>>
================== RESTART: C:\Users\abd\Desktop\aaaaa\q3.py ==================
hi, please answer on 20 question by t or f
enter your name: abdullah
a spanning tree is a graph in which there is no branch
f
a subnet mask has more consecutive 1s than the .corresponding default mask
t
a switch blocking port cannot receive or transit frames
f
a switch can reduce the amount of desired traffic ona -.network
t
a switch is the combination of a hub and a router
t
a syn field in udp data unit is optional
t
a syn segment cannot carry data it consumes one sequence number
f
bridges use cut-through mechanism without crc verification
t
broadcast on vlan of the same switch are received by _ all ports of the switch
f
can be the beginning address of a block of 16 2.4.6.62 classless addresses
f
cycles of bridges can be in a result of unknown .destination frames
t
d fields in wireless frames may contain nav value gus! so1i5! valeo
f
data link layer is responsible for carrying frames between adjacent nodes
t
designated port is the port that is selected as having the highest port cost
```

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f
data link layer is responsible for carrying frames between adjacent nodes
t
designated port is the port that is selected as having the highest port cost
t
devices are assigned a subnet mask if they belong toa .subnetted network
f
each ethernet card has a unique mac address
t
router switches the packet to the appropriate outgoing interfaces
t
routers are not capable to read tcp data unit at all
t
routing tables are based on the physical addresses
f
rts / cts mechanism can totally solve hidden / exposed
t
abdullah the correct answers:10
>>>

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a spanning tree is a graph in which there is no branch,f
a subnet mask has more consecutive 1s than the .corresponding default mask ,t
a switch blocking port cannot receive or transit frames ,f
a switch can reduce the amount of desired traffic ona -.network ,f
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a syn field in udp data unit is optional ,f
a syn segment cannot carry data it consumes one sequence number ,t
bridges use cut-through mechanism without crc verification ,f
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