

Syrian Arab Republic

Lattakia - Tishreen University

Department of Communication and
electrical engineering

5th , Network Programming : Homework
No1



الجمهورية العربية السورية

اللاذقية - جامعة تشرين

كلية الهندسة الكهربائية والميكانيكية

قسم هندسة الاتصالات والالكترونيات

السنة الخامسة: وظيفة 1 برمجة شبكات

Name: raghad hakim __, Number: 2272__, Submitted To GitHub:yes__

First Network Programming Homework

تقديم الطالبة رغد حكيم

السؤال الأول:

الطلب الأول:

1-A.py - F:\New folder\1-A.py (3.10.4)

File Edit Format Run Options Window Help

```
graduated=['raghad','alia','sally','madian','ismaeel']
student=input('enter student name to see result')
if student in graduated:
    print(student,"graduated",sep=" ***** ")
else:
    print(student,"not graduated",sep=" !!!! ")
```

الخرج:

IDLE Shell 3.10.4

File Edit Shell Debug Options Window Help

```
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC
AMD64] on win32
Type "help", "copyright", "credits" or "license()" for more infor
>>>
===== RESTART: F:\New folder\1-A.py =====
enter student name to see resultraghad
raghad ***** graduated
>>>
```

الطلب الثاني:

1-B.py - F:\New folder\1-B.py (3.10.4)

File Edit Format Run Options Window Help

```
odd_nums=[x for x in range(1,1001) if x%2!=0]  
print(odd_nums)
```

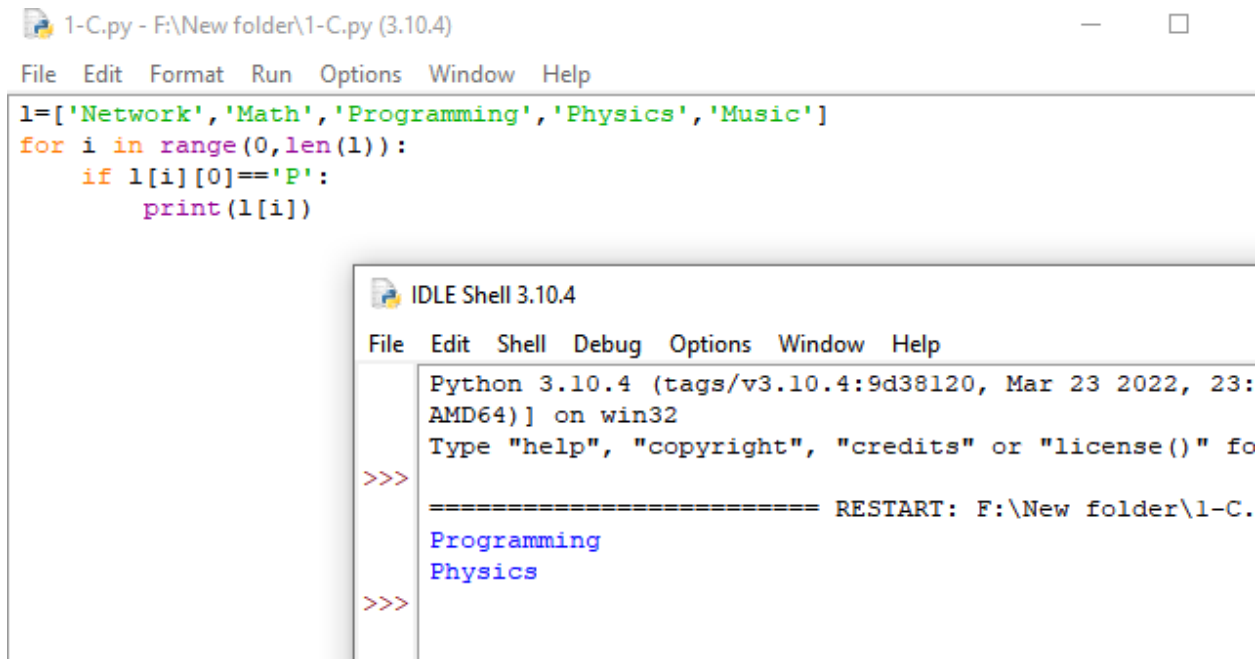
الخرج

>>>

```
===== RESTART: F:\New folder\1-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, 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]
```

>>>

الطلب الثالث:



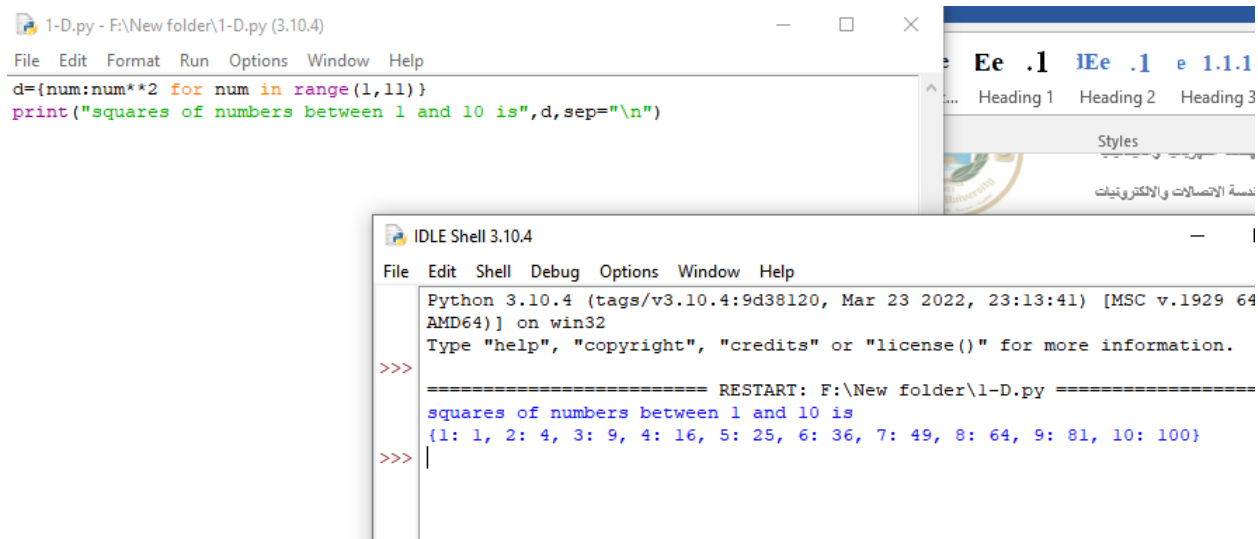
The screenshot shows the Python IDLE 3.10.4 environment. The main editor window displays a script named '1-C.py' with the following code:

```
l=['Network','Math','Programming','Physics','Music']
for i in range(0,len(l)):
    if l[i][0]=='P':
        print(l[i])
```

The IDLE Shell window shows the execution output:

```
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" fo
>>>
===== RESTART: F:\New folder\1-C.
Programming
Physics
>>>
```

الطلب الرابع:



The screenshot shows the Python IDLE 3.10.4 environment. The main editor window displays a script named '1-D.py' with the following code:

```
d={num:num**2 for num in range(1,11)}
print("squares of numbers between 1 and 10 is",d,sep="\n")
```

The IDLE Shell window shows the execution output:

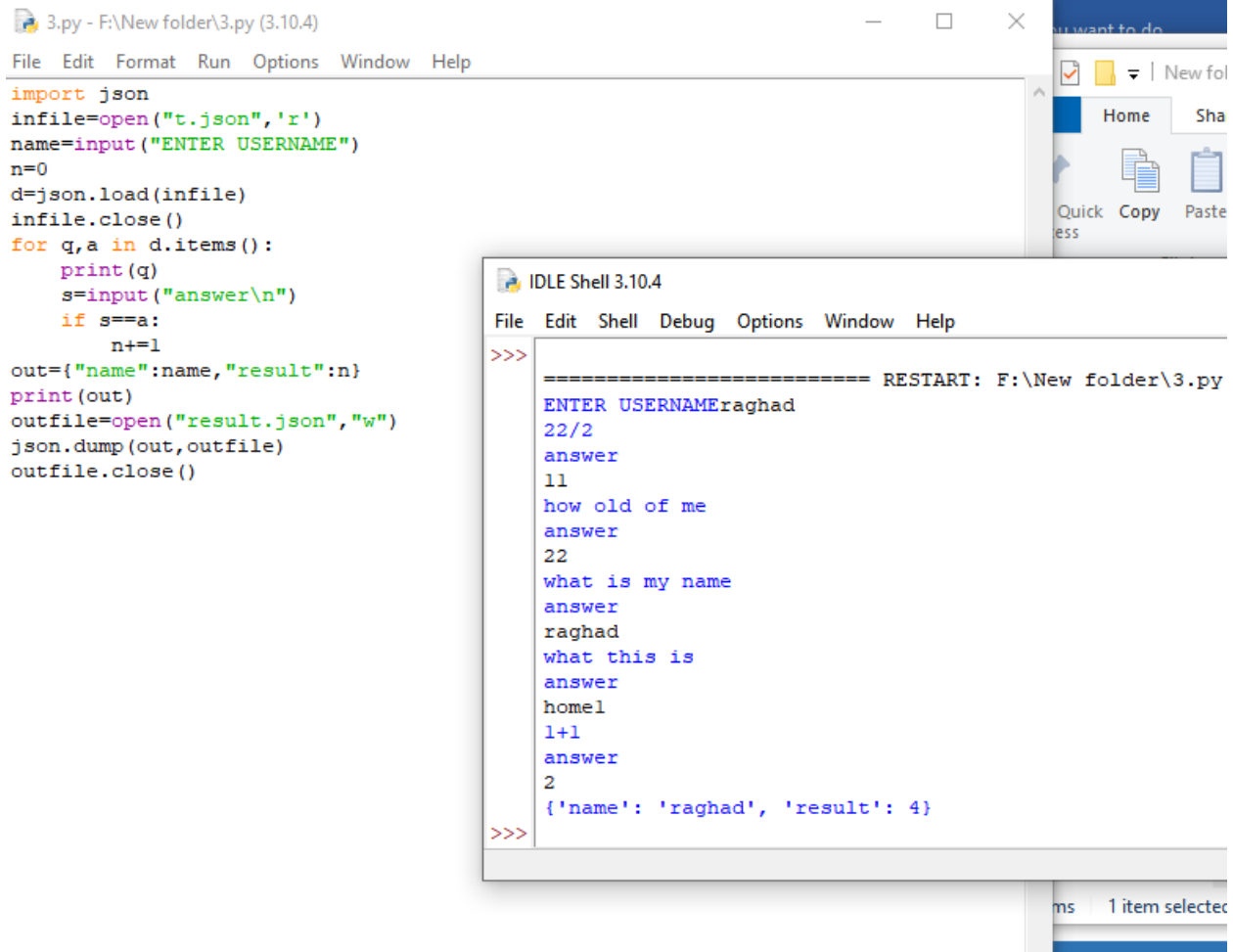
```
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: F:\New folder\1-D.py =====
squares of numbers between 1 and 10 is
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
>>>
```

```
2.py - F:\New folder\2.py (3.10.4)
File Edit Format Run Options Window Help

temp=list()
De=input('enter number')
binary=""
if De.isdigit():
    d=int(De)
    while d>0:
        temp.append(d%2)
        d//=2
    temp.reverse()
    for i in temp:
        binary+=str(i)
    print(binary)
else:
    print("error input")
```

```
IDLE Shell 3.10.4
File Edit Shell Debug Options Window Help

Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022) on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: F:\New folder\
enter number12
Traceback (most recent call last):
  File "F:\New folder\2.py", line 4, in <module>
    if De.isdigit():
AttributeError: 'str' object has no attribute 'isdigit'
?
>>>
===== RESTART: F:\New folder\
enter number12
1100
>>> |
```



```

3.py - F:\New folder\3.py (3.10.4)
File Edit Format Run Options Window Help

import json
infile=open("t.json",'r')
name=input("ENTER USERNAME")
n=0
d=json.load(infile)
infile.close()
for q,a in d.items():
    print(q)
    s=input("answer\n")
    if s==a:
        n+=1
out={"name":name,"result":n}
print(out)
outfile=open("result.json","w")
json.dump(out,outfile)
outfile.close()

IDLE Shell 3.10.4
File Edit Shell Debug Options Window Help
>>>
===== RESTART: F:\New folder\3.py
ENTER USERNAMEraghad
22/2
answer
11
how old of me
answer
22
what is my name
answer
raghad
what this is
answer
homel
1+1
answer
2
{'name': 'raghad', 'result': 4}
>>>

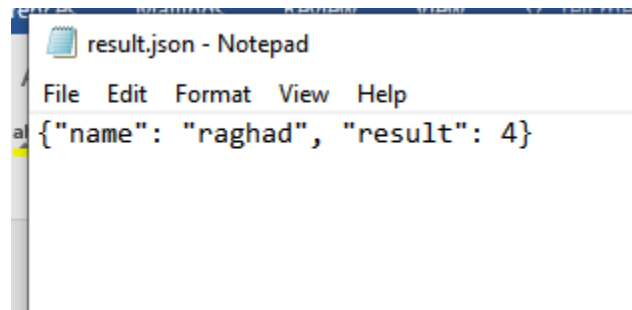
```

ملف الأسئلة

t.json - Notepad

```
File Edit Format View Help
{"22/2":"11","how old of me":"22","what is my name":"raghad","what this is":"homework","1+1":"2"}
```

ملف النتيجة



```
result.json - Notepad
File Edit Format View Help
{"name": "raghad", "result": 4}
```