Syrian Arab Republic

Lattakia - Tishreen University

Department of Communication and electrical engineering

5th, Network Programming: Homework No1



الجمهورية العربية السورية اللانقية -جامعة تشريسن كلية الهندسة الكهربانية والميكانيكية قسم هندسة الاتصالات والالكترونيات الشنة الخامسة: وظيفة 1 برمجة شبكات

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السؤال الأول:

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.

```
garduatedstudents=['reem','tala','wafeek','ahmad','mohmmed']
sname=input('enter student name: ')
if sname in garduatedstudents:
   print(sname,'is graduated.')
else:
   print(sname,'is not graduated.')
```

الخرج

```
enter student name: reem reem is graduated.
```

```
B_ Generate and print a list of odd numbers from 1 to 1000.
```

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

ألخرج

```
[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]
```

>>>

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

```
items that
     the
                      starts with 'P' letter,
                                             then print it on
                                                                 screen.
                      Options vindow ricip
l=['Network', 'Math', 'Programming', 'Physics', 'Music']
for i in range (len(1)):
     if 1[i][0] == 'P':
         print(l[i])
                                   الخرج
                  Programming
Physics
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 Luit Format Nuri Options Williams
                                              Licih
 d={x:x**2 for x in range(1,11)}
 print(d)
                                   ألخرج
     {1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
```

binary

Convert from decimal to

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.

```
s=int(input('enter decimal number '))
result=[]
while s>0:
    result.append(str(s%2))
    s//=2
result.reverse()
print("".join(result))
```

```
enter decimal number 6
```

```
File Edit Format Kun Options
                           Window Help
import json
infile='1.json'
infile=open(infile,'r')
num=0
u=input('enter your name: ')
d=dict()
dic=json.load(infile)
infile.close()
for k, v in dic.items():
    print(k)
    a=input()
    if a == v:
        num+=1
        d[k]=v
d[u]=num
print (d)
outfile='2.json'
outfile=open(outfile,'w')
json.dump(d,outfile)
outfile.close()
```

```
enter your name: reem

1+1
2
2+2
4
3+3
1
4+4
2
5+5
1
6+6
2
7+7
1
{'1+1': '2', '2+2': '4', 'reem': 2}
>>>
```

```
2.json - Notepad
```

```
File Edit Format View Help
{"1+1": "2", "2+2": "4", "reem": 2}
```