

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 والإلكترونيات

السنة الخامسة: وظيفة 1 برمجة شبكات

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Question 1

A-

```
students=['bayan','kizo','mohammad','jamal','taimaa']
s=input('enter your name ')
if s in students:
    print(s,"graduated!")
else:
    print(s,"not graduated")
```

الخرج:

```
enter your name bayan
bayan graduated!
```

Process finished with exit code 0

B-

```
odd_numbers=[x for x in range(1,1000) if x%2!=0]
print(odd_numbers)
```

الخرج:

```
[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']
for i in range(len(l)):
    if l[i][0]=='P':
        print(l[i])
```

الخرج:

```
Programming
Physics
```

```
Process finished with exit code 0
```

D-

```
def f(x):
    return x**2
d={x:f(x) for x in range(1,11)}
print(d)
```

الخرج:

```
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
```

Process finished with exit code 0

Question 2:

```
def binary(a):  
    l=[]  
    while True:  
        l.append(a%2)  
        a//=2  
        if a==0:  
            break  
    l.reverse()  
    return l  
  
num=int(input('enter a number'))  
x=binary(num)  
for i in x:  
    print(i,end="")
```

الخرج:

```
enter a number4  
100  
Process finished with exit code 0
```

Question 3

كتابة ملف الإسئلة

```
import pickle  
d={"1+1=":2, "1+3=":4, "2+7=":9, "1*10=":10, "100+2=":102, "10*10=":100, "52+3=":55, "22+22=":44}  
outfile=open("p.txt", "wb")  
pickle.dump(d, outfile)  
outfile.close()
```

البرنامج الرئيسي لقراءة الملف وحل الأسئلة

```
import pickle
infile=open("p.txt","rb")
d=pickle.load(infile)
infile.close()
count=0
user=input("enter username")
for i in d.keys():
    print(i)
    ans=int(input())
    if ans==d[i]:
        print('true')
        count+=1
print(count,"true")
outfile=open("tt.txt",'w')
outfile.write(f"{user}
{count}
good job")
outfile.close()
```

الخرج

```
enter usernamebayan
1+1=
2
true
1+3=
4
true
2+7=
9
true
1*10=
10
true
100+2=
102
true
10*10=
100
true
52+3=
4
22+22=
44
true
7 true
```
