

## السؤال الأول

### A الطلب

```
In [2]: grad_s=['zubaida','yara','haneen','amjad','karam','sam']
#Loop for accept more one name
while True:
    #input name
    s_name=input('input a student name:')
    #testing if student name in list
    if s_name in grad_s:
        print("{} graduated...>> congration!!!".format(s_name))
    else:
        print("bad luck...>> {} is not graduated".format(s_name))
    q=input("do you want to continue, if yes enter y ")
    #countinue or not
    if q!='y':
        break
```

```
input a student name:zubaida
zubaida graduated...>> congration!!!
do you want to continue, if yes enter y y
input a student name:yara
yara graduated...>> congration!!!
do you want to continue, if yes enter y y
input a student name:ahmad
bad luck...>> ahmad is not graduated
do you want to continue, if yes enter y n
```

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [ ]:

## B الطلب

```
In [16]: odds=[x for x in range(1,1000) if x%2!=0]
print(odds)
```

```
[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 الطلب

```
In [5]: l=['Network','Math','Programming','Physics','Music']
for i in l:
    if i.startswith('P'):
        print(i,end="\t")
```

Programming      Physics

In [ ]:

In [ ]:

In [ ]:

## الطلب D

In [6]: *#the dictionary is about numbers and square of numbers*  
`d={x:x**2 for x in range(1,11)}`  
`print(d)`

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

## السؤال الثاني

In [4]:  
`temp=list()`  
`while True:`  
 `num=int(input('enter decimal number: '))`  
 `while True:`  
 `temp.append(str(num%2))`  
 `num//=2`  
 `if num==0:`  
 `break`  
 `#to setting the true stutue`  
 `temp.reverse()`  
 `#convert list to string`  
 `result=''.join(temp)`  
 `print('result is ', result)`  
 `temp.clear()`  
 `q=input("do you want to continue, if yes enter y ")`  
 `#countinue or not`  
 `if q!='y':`  
 `break`

```
enter decimal number: 1
result is  1
do you want to continue, if yes enter y y
enter decimal number: 2
result is  10
do you want to continue, if yes enter y y
enter decimal number: 3
result is  11
do you want to continue, if yes enter y y
enter decimal number: 4
result is  100
do you want to continue, if yes enter y y
enter decimal number: 5
result is  101
do you want to continue, if yes enter y y
enter decimal number: 14
result is  1110
do you want to continue, if yes enter y n
```

## السؤال الثالث

```

In [14]: def readfunc():
    #this function to read lines from file and delete the \n at end of line and r
    filename="أسئلة وأجوبة.txt"
    infile=open(filename,'r')
    q=[line.rstrip() for line in infile]
    infile.close()
    return q
a=readfunc()
numques=len(a)
trueanswer=0
#make each question and answer in List
for i in a:
    q=i.split('?')
    print(q[0])
    s=input("answer the questions")
    #test
    if s==q[-1]:
        print('true')
        trueanswer+=1
    else:
        print('flase')
#take username
name=input('enter your name: ')
print('you are asnwered on {} true from {}'.format(trueanswer,numques))
#make file
outfile=open('resutls.txt','w')
outfile.writelines(name)
outfile.writelines(' you are asnwered on {} true from {}'.format(trueanswer,numques))
outfile.close()

```

```

what is the name of this course
answer the questionsprogramming network
flase
what is the name of university
answer the questionstishreen
true
100+13
answer the questions113
true
are you ready to quiz
answer the questionsyes
true
list is an iterable object true or flase
answer the questionstrue
true
50*50
answer the questions500
flase
2*2
answer the questions4
true
enter your name: zubaida
you are asnwered on 5 true from 7

```

