

السؤال الاول:

Question 1: Python Basics?

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.

B- Generate and print a list of odd numbers from 1 to 1000.

Tips: "List Comprehension"

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 the items that starts with 'P' letter, then print it on screen.

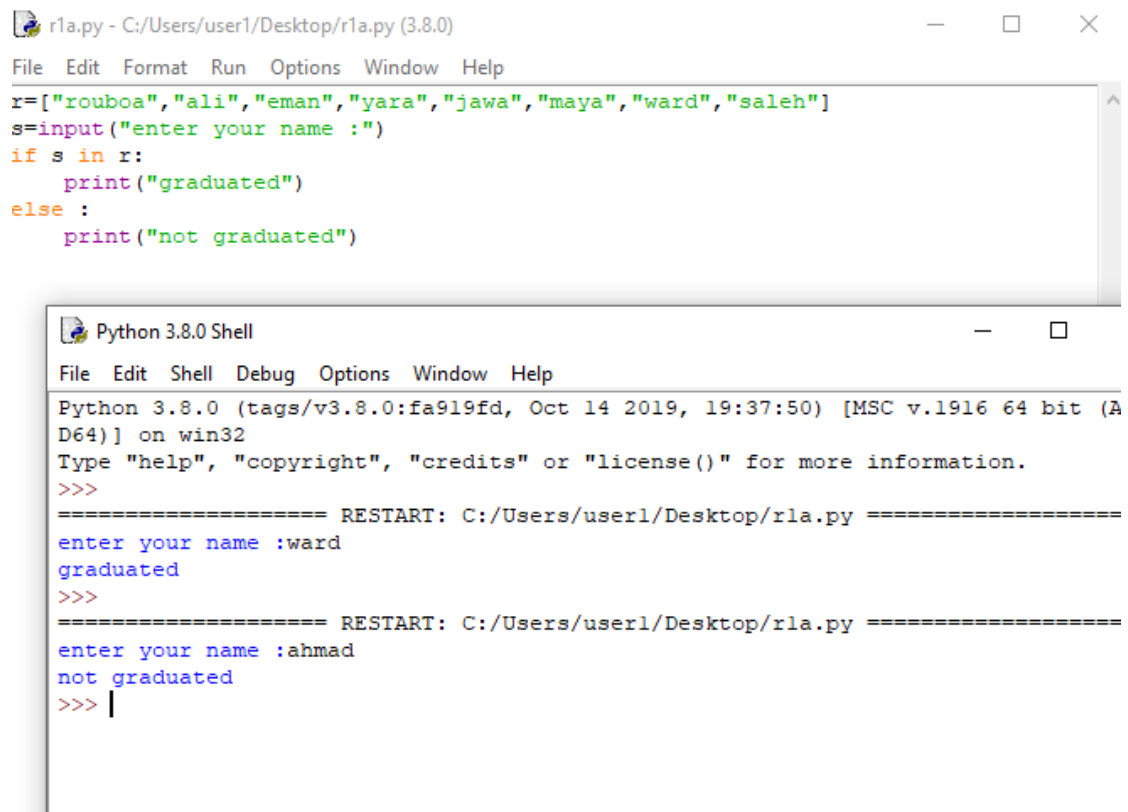
Tips: using loop, list 'len ()' method

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}

الطلب A:

قائمه بأسماء الطلاب المتخرجين

الكود هنا يأخذ اسم الطالب ويعطي في حال هذا الطالب متخرج ام لا



The image shows two windows from a Python 3.8.0 IDE. The top window, titled 'r1a.py - C:/Users/user1/Desktop/r1a.py (3.8.0)', contains the following Python code:

```
File Edit Format Run Options Window Help
r=["rouboa","ali","eman","yara","jawa","maya","ward","saleh"]
s=input("enter your name :")
if s in r:
    print("graduated")
else :
    print("not graduated")
```

The bottom window, titled 'Python 3.8.0 Shell', shows the execution of the script. It displays the prompt 'enter your name :ward' followed by the output 'graduated'. It then shows a restart of the script with the prompt 'enter your name :ahmad' followed by the output 'not graduated'. The shell prompt is currently at the start of a new line.

```
Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:37:50) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/user1/Desktop/r1a.py =====
enter your name :ward
graduated
>>>
===== RESTART: C:/Users/user1/Desktop/r1a.py =====
enter your name :ahmad
not graduated
>>> |
```

الطلب B:

نطبع ضمن قائمه الاعداد الفرديه من 1 ال 1000

```
1b.py - C:/Users/user1/AppData/Local/Programs/Python/Pyt Python 3.8.0 Shell
File Edit Format Run Options Window Help File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:37:50) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/user1/AppData/Local/Programs/Python/Python38/lb.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 C:

قائمه باسماء المواد نريد طباعة فقط المواد التي تبدأ ب P

```
ooo.py - C:/Users/user1/Desktop/ooo.py (3.8.0)
File Edit Format Run Options Window Help
LIST=["Network","Math","Programming","Pysics","Music']
for n in LIST :
    if n[0]=="P":
        print(n)

Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:37:50) [MSC v.1916
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more informatio
>>>
===== RESTART: C:/Users/user1/Desktop/ooo.py =====
Programming
Pysics
>>> |
```

الطلب D:

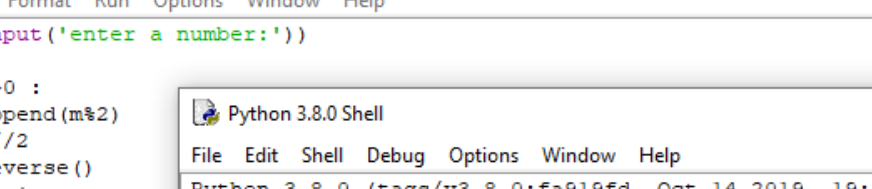
نبنّي dictionary ونطبع منها مربعات الاعداد من 1 ل 10

```
1 File Edit Format Run Options Window Help
k={i:i**2 for i in range(1,11)}
print(k)

Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:37:50) [MSC v.1916
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more informatio
>>>
===== RESTART: C:/Users/user1/Desktop/tt.py =====
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
>>> |
```

السؤال الثاني :

في هذا البرنامج ندخل عدد عشري ونحوه الى ثنائي ونريد طباعة العدد الثنائي بحيث نقسم العدد العشري على 2 ونخزن الناتج في العدد نفسه ثم نقسم الناتج على 2 ايضا ونحتفظ بباقي القسمة ونكرر هذه العملية حتى ناتج يساوي 0 ثم نطبع باقي القسمة في كل عملية ويكون هو العدد الثنائي المطلوب



```
2.py - C:\Users\user1\Desktop\2.py (3.8.0)
File Edit Format Run Options Window Help

m=int(input('enter a number:'))
i=[]
while m>0 :
    i.append(m%2)
    m=m//2
    i.reverse()
for m in i:
    print(m,end=" ")

Python 3.8.0 Shell
File Edit Shell Debug Options Window Help
Python 3.8.0 (tags/v3.8.0:fa919fd, Oct 14 2019, 19:37:50) [M
D64] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
===== RESTART: C:\Users\user1\Desktop\2.py =
enter a number:44
1 1 0 0 1 0
>>> 98
98
>>> |
```

السؤال الثالث:

نضع مجموعه من الاسئلة ضمن ملف json وايضا نضع الحل الصحيح
ثم نكتب برنامج بايثون نجعل الطالب يدخل اسمه ونختبره بالاسئلة السابقة
ونقارن اجوته مع الاجابه الصحيحه بحيث يحصل على علامه عند كل
اجابه صحيحه ولا يأخذ أي علامة عند الاجابه الغلط ونطبع اسم الطالب
ونتيجه و علامته المستحقه

```
*untitled*
File Edit Format Run Options Window Help
import json
1="what is the sky color?"
2="what is the snow color?"
3="what is the sky color?"
4="what is the snow color?"
5="what is the sky color?"
true={1:"blue",2:"white",3:"blue",4:"white",5:"blue"}
r=json.dumps(true)
with open ("r.json","w") as t:
    t.write(r)
|
```

333.py - C:\Users\user1\Desktop\exam.python\333.py (3.

File Edit Format Run Options Window Help

```
import json
name=input("enter your name:")
mark=0
p=[]
with open ("r.json","r") as t:
    r=json.loads(t.read())
for i in r :
    ans=input("enter the answer:")
    p.append(ans)
    if ans==r[i]:
        print("yes")
        mark=mark+1
    else :
        print("no")
w={name,p}
print(w)
print("the mark is : ",mark)
```