راما طارق تن **2011** الوظيفة الأولى 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

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garduatedstudents=['rama', 'sara', 'mhmad', 'tarek', 'jamil']
sname=input('enter student name: ')
if sname in garduatedstudents:
    print(sname, 'is graduated.')
    print(sname, 'is not graduated.')
    enter student name: tarek
    tarek is graduated.
>>>
```

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

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

```
[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

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

```
l=['Network','Math','Programming','Physics','Music']
for i in range(len(1)):
    if l[i][0]=='P':
        print(l[i])
```

```
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}

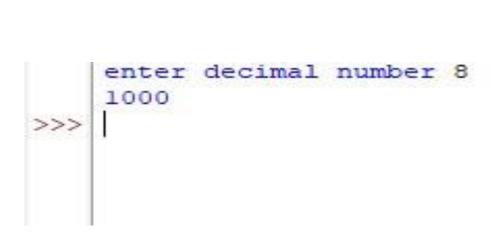
```
d={x:x**2 for x in range(1,11)}
print(d)

Programming
Physics
>>>
```

السؤال 2: Convert from decimal to binary

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.

```
binary=list()
d=int(input('enter decimal number '))
while d>0:
    binary.append(d%2)
    d//=2
binary.reverse()
for i in binary:
    print(i,end='')
```



السؤال 3: "Working with Files" Quiz Program

Type python quiz program that takes a text or json or csv file as input for (20 (Questions, Answers)). It asks the questions and finally computes and prints user results and store user name and result in separate file.

```
infile='t.txt'
infile=open(infile, 'r')
n=0
u=input('enter user name: ')
for i in infile:
    answer=input(i[:i.index(':')])
    if answer == i[i.index(':')+1:].rstrip():
        n+=1
        s+=i+" true/n"
s+=str(n)
print(s)
outfile='new.txt'
outfile=open(outfile,'w')
outfile.writelines(s)
infile.close()
outfile.close()
```

```
enter user name: rama
what the index of h in hello0
what is the hello.index("o")4
what is the len("ww")2
what is the "aa".upper()aa
can you use len() with listyes
what the index of h in hello:0
  true/nwhat is the hello.index("o"):4
  true/nwhat is the len("ww"):2
  true/ncan you use len() with list:yes true/n4
```

>>>