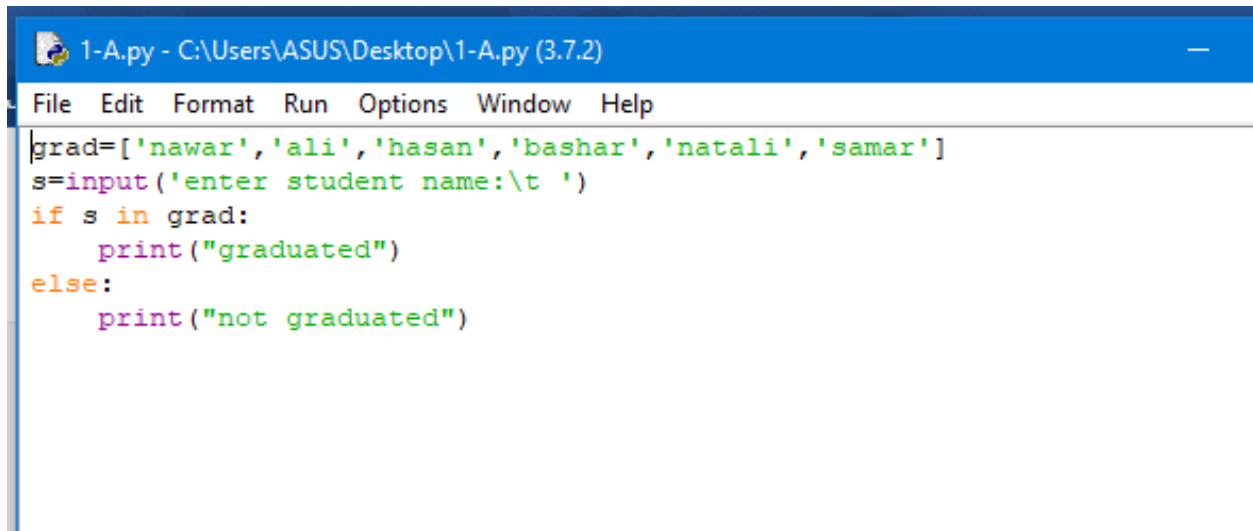


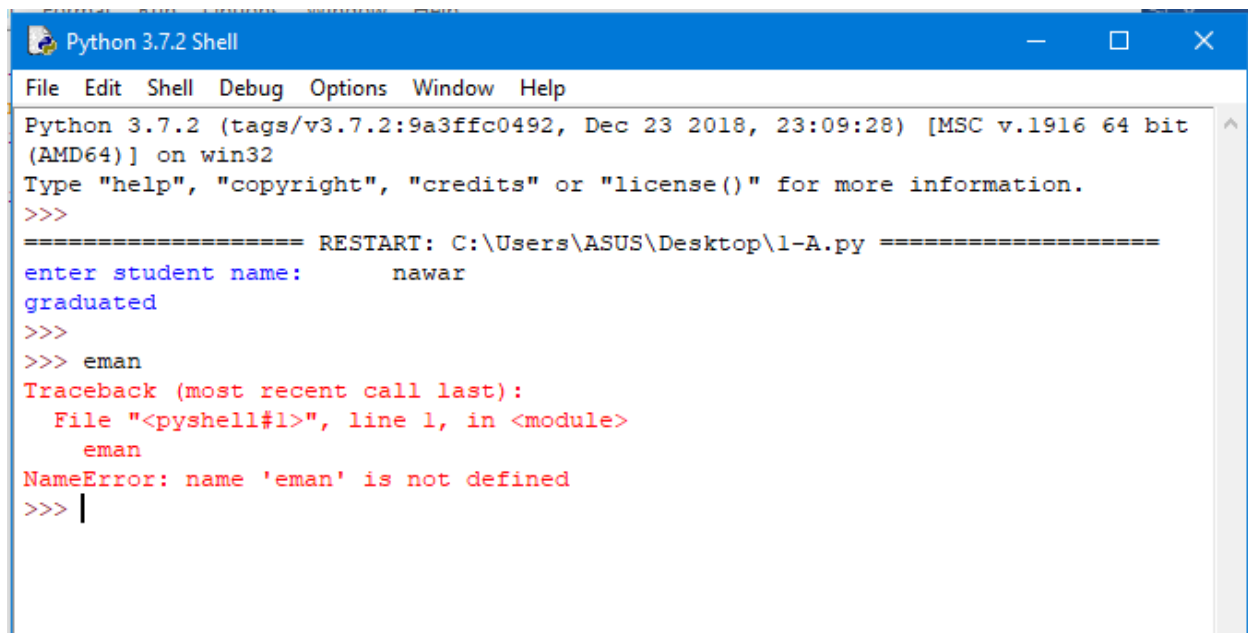
## First Network Programming Homework

### 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.



```
1-A.py - C:\Users\ASUS\Desktop\1-A.py (3.7.2)
File Edit Format Run Options Window Help
grad=['nawar','ali','hasan','bashar','natali','samar']
s=input('enter student name:\t ')
if s in grad:
    print("graduated")
else:
    print("not graduated")
```



```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 23:09:28) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ASUS\Desktop\1-A.py =====
enter student name:      nawar
graduated
>>>
>>> eman
Traceback (most recent call last):
  File "<pyshell#1>", line 1, in <module>
    eman
NameError: name 'eman' is not defined
>>> |
```

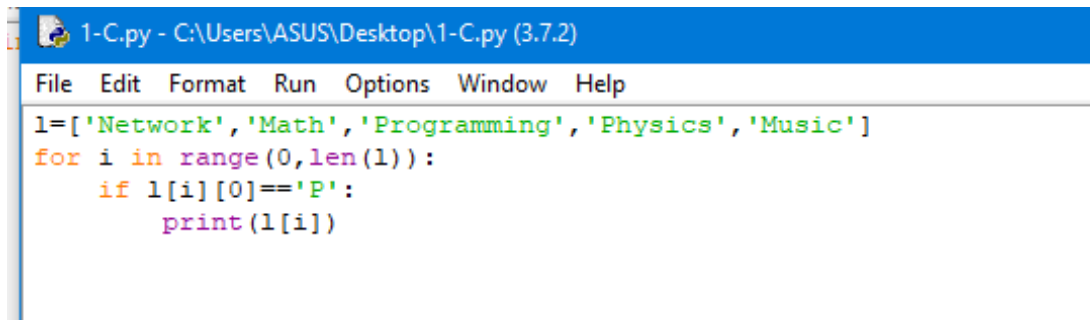
B- Generate and print a list of odd numbers from 1 to 1000.

```
1-B.py - C:\Users\ASUS\Desktop\1-B.py (3.7.2)
File Edit Format Run Options Window Help
d=[x for x in range(1,1001) if x%2!=0]
print(d)
```

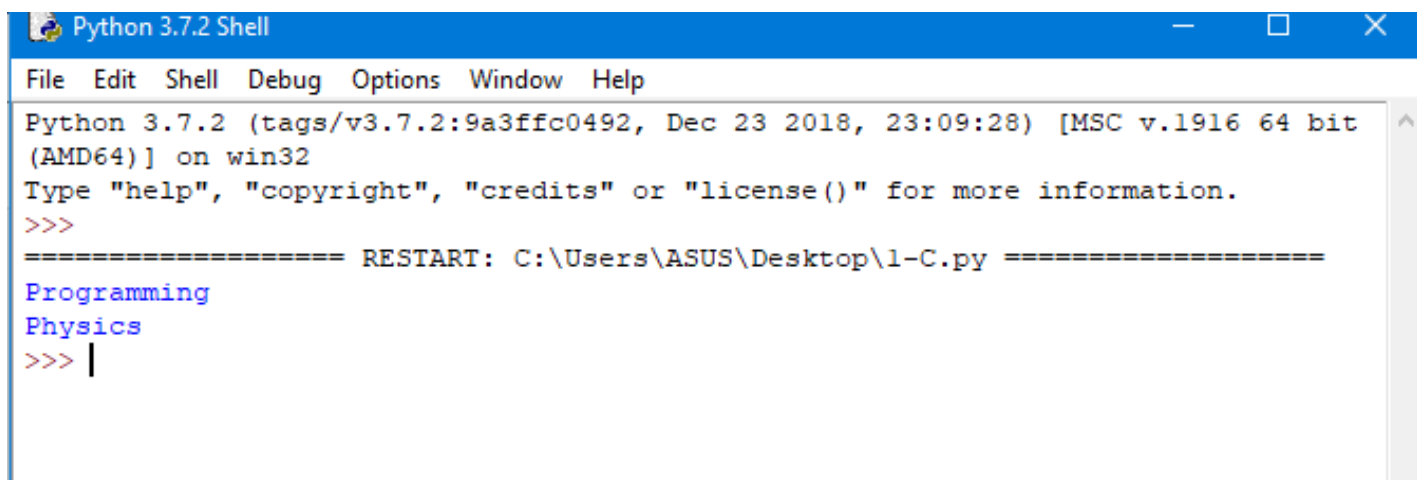
```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 23:09:28) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ASUS\Desktop\1-B.py =====
[1, 3, 5, 7, 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]
>>> |
```

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.



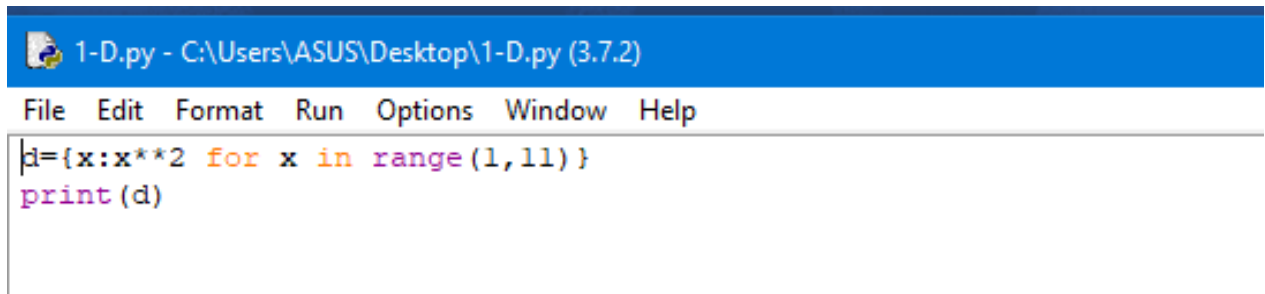
```
1-C.py - C:\Users\ASUS\Desktop\1-C.py (3.7.2)
File Edit Format Run Options Window Help
l=['Network','Math','Programming','Physics','Music']
for i in range(0,len(l)):
    if l[i][0]=='P':
        print(l[i])
```



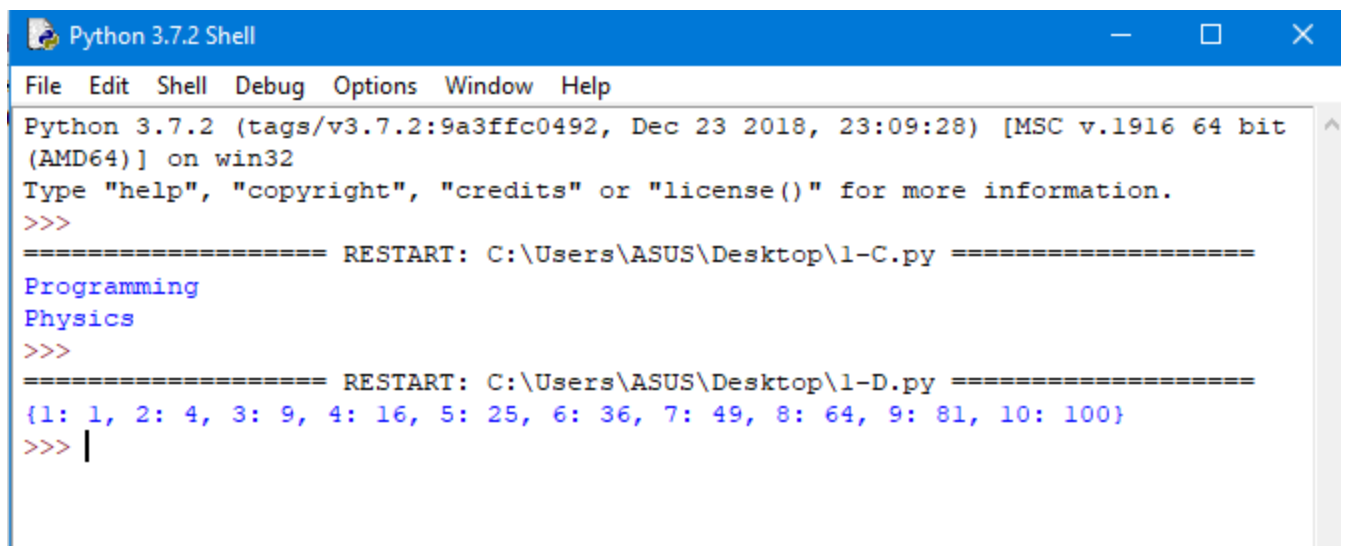
```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 23:09:28) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ASUS\Desktop\1-C.py =====
Programming
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}



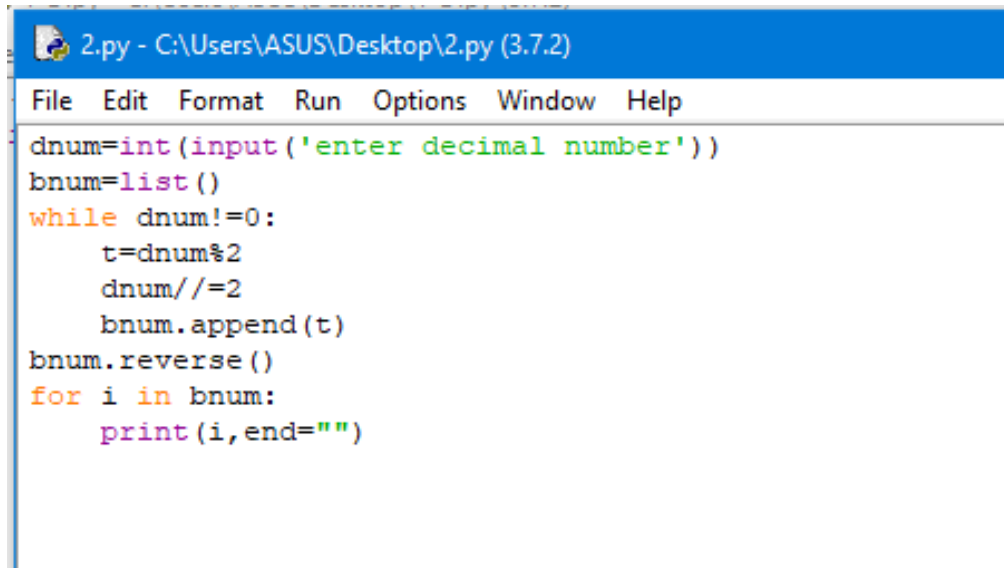
```
1-D.py - C:\Users\ASUS\Desktop\1-D.py (3.7.2)
File Edit Format Run Options Window Help
d={x:x**2 for x in range(1,11)}
print(d)
```



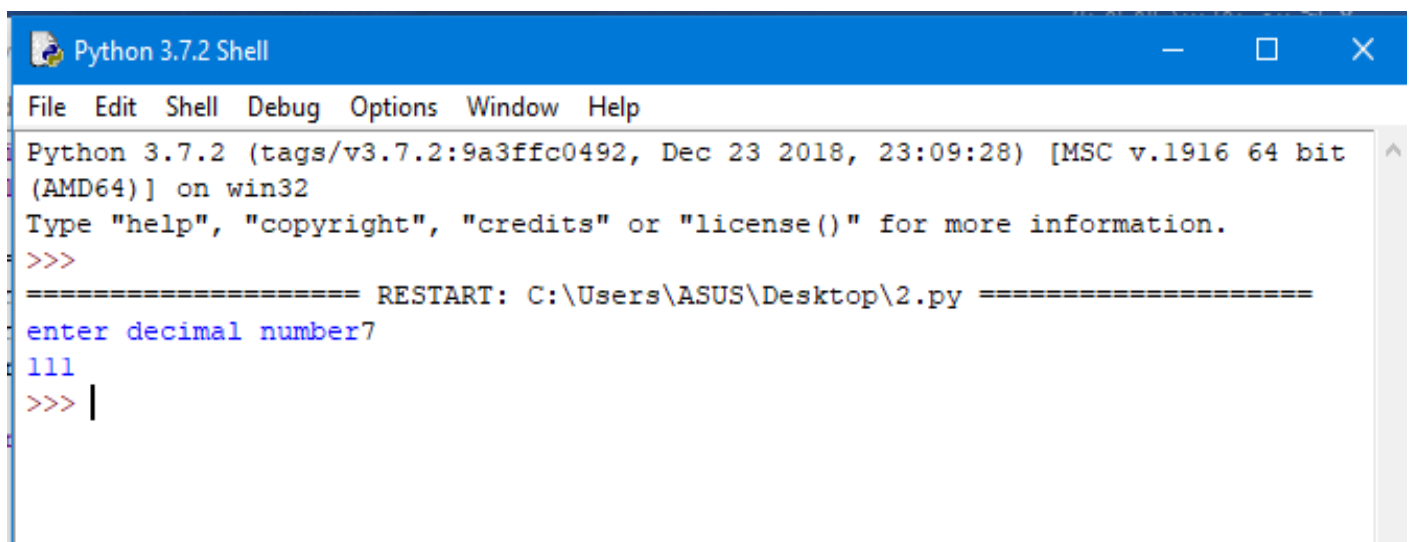
```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 23:09:28) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ASUS\Desktop\1-C.py =====
Programming
Physics
>>>
===== RESTART: C:\Users\ASUS\Desktop\1-D.py =====
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
>>> |
```

## Question 2: Convert from decimal to binary

Write a Python program that converts a decimal number into its equivalent binary number.



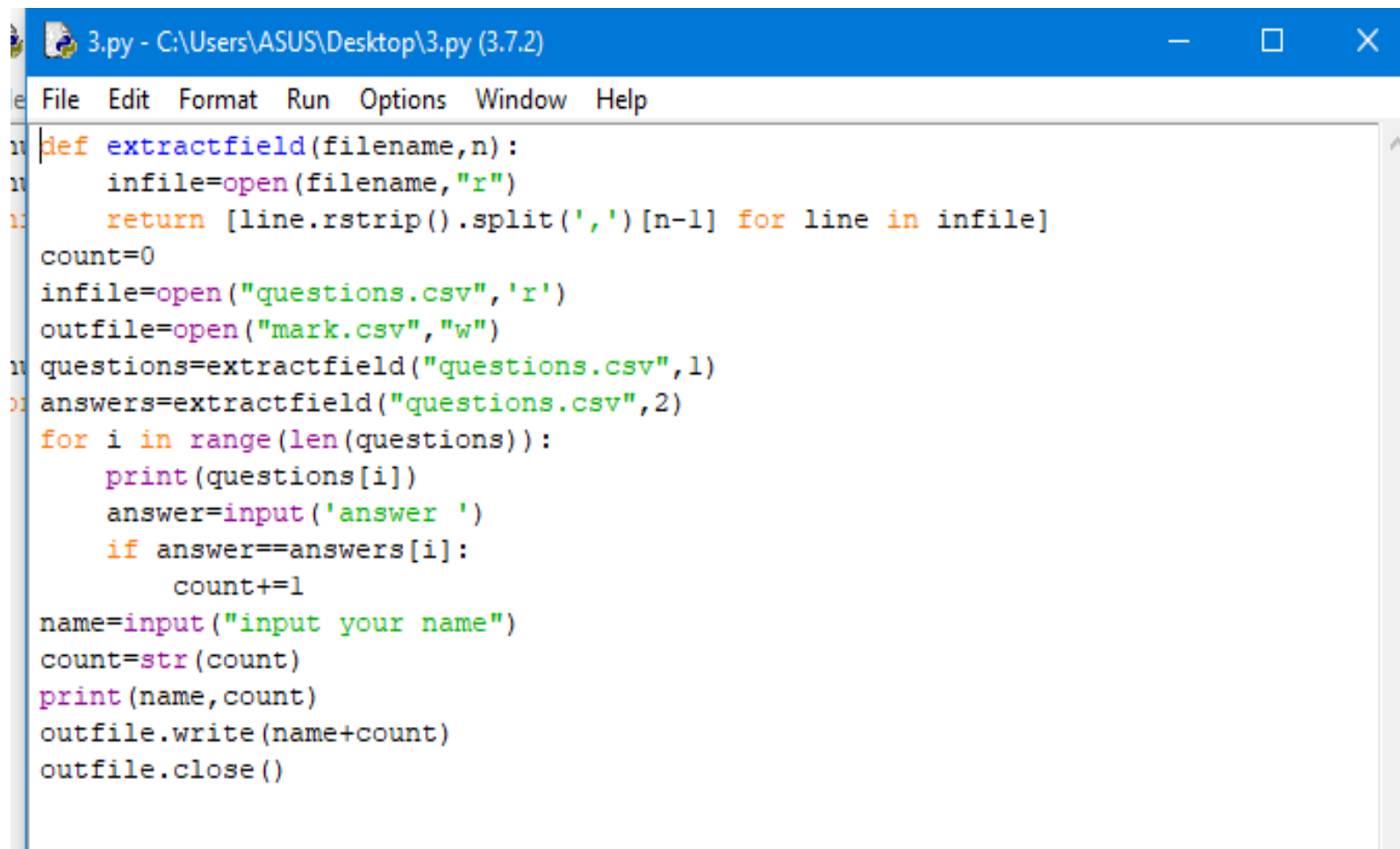
```
2.py - C:\Users\ASUS\Desktop\2.py (3.7.2)
File Edit Format Run Options Window Help
dnum=int(input('enter decimal number'))
bnum=list()
while dnum!=0:
    t=dnum%2
    dnum//=2
    bnum.append(t)
bnum.reverse()
for i in bnum:
    print(i,end="")
```



```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
Python 3.7.2 (tags/v3.7.2:9a3ffc0492, Dec 23 2018, 23:09:28) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ASUS\Desktop\2.py =====
enter decimal number7
111
>>> |
```

### Question 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.

A screenshot of a Python IDE window titled '3.py - C:\Users\ASUS\Desktop\3.py (3.7.2)'. The window has a menu bar with 'File', 'Edit', 'Format', 'Run', 'Options', 'Window', and 'Help'. The code is written in Python and defines a function 'extractfield' to read a CSV file. It then uses this function to read questions and answers from 'questions.csv', asks the user to answer each question, and finally prints the user's name and score, saving it to 'mark.csv'.

```
def extractfield(filename,n):  
    infile=open(filename,"r")  
    return [line.rstrip().split(',')[n-1] for line in infile]  
count=0  
infile=open("questions.csv",'r')  
outfile=open("mark.csv","w")  
questions=extractfield("questions.csv",1)  
answers=extractfield("questions.csv",2)  
for i in range(len(questions)):  
    print(questions[i])  
    answer=input('answer ')  
    if answer==answers[i]:  
        count+=1  
name=input("input your name")  
count=str(count)  
print(name,count)  
outfile.write(name+count)  
outfile.close()
```

```
Python 3.7.2 Shell
File Edit Shell Debug Options Window Help
===== RESTART: C:\Users\ASUS\Desktop\3.py =====
1*1
answer 1
2*2
answer 4
3*3
answer 9
4*4
answer 16
5*5
answer 25
6*6
answer 36
7*7
answer 49
8*8
answer 64
9*9
answer 81
10*10
answer 100
9*9
answer 81
8*8
answer 64
7*7
answer 49
6*6
answer 36
5*5
answer 25
3*3
answer 9
2*2
answer 4
1*1
answer 1
input your namenawar
nawar 18
>>>
```

Ln: 43 Col:

	A	B	C	D
1	1*1,1			
2	2*2,4			
3	3*3,9			
4	4*4,16			
5	5*5,25			
6	6*6,36			
7	7*7,49			
8	8*8,64			
9	9*9,81			
10	10*10,100			
11	9*9,81			
12	8*8,64			
13	7*7,49			
14	6*6,36			
15	5*5,25			
16	3*3,9			
17	2*2,4			
18	1*1,1			
19				
20				
21				
22				
23				
24				

	A	B
1	nawar18	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		