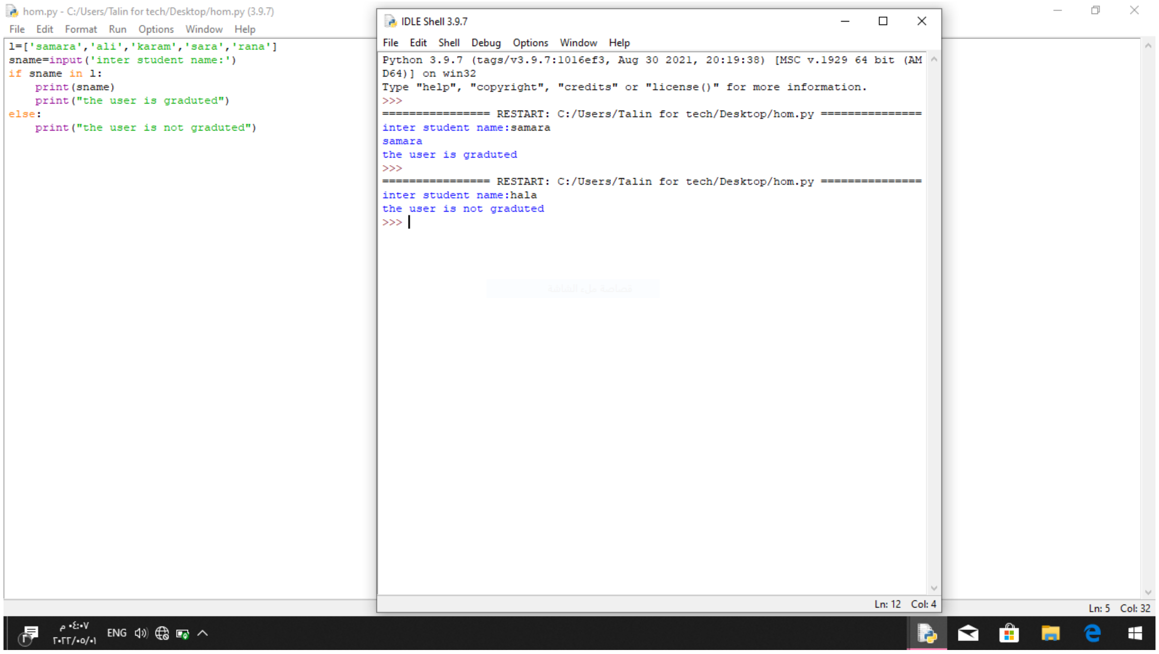
Name: samara Mansour Suleiman 2438

First network programming homework

Question 1:

A-

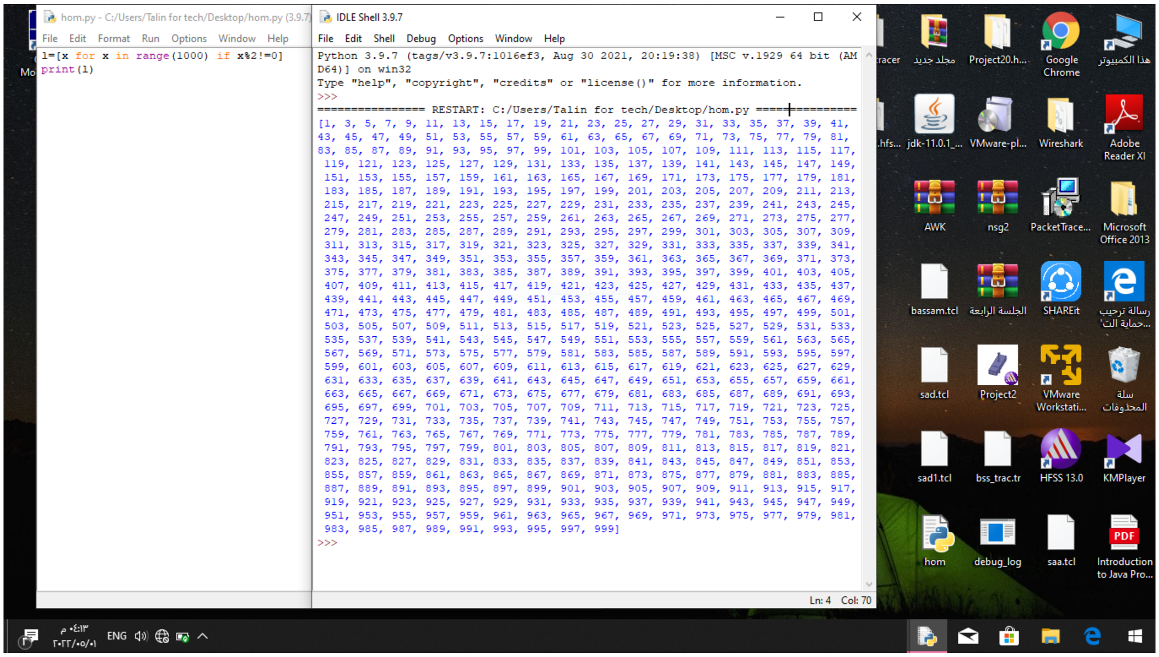


hom.py - C:/Users/Talin for tech/Desktop/hom.py (3.9.7)
File Edit Format Run Options Window Help
IDLE Shell 3.9.7
File Edit Shell Debug Options Window Help
Ln: 12 Col: 4
Ln: 5 Col: 32
ENG

```
l=['samara','ali','karam','sara','rana']
sname=input('inter student name:')
if sname in l:
    print(sname)
    print("the user is graduted")
else:
    print("the user is not graduted")
```

```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> 
================ RESTART: C:/Users/Talin for tech/Desktop/hom.py ===============
inter student name:samara
samara
the user is graduted
>>> 
================ RESTART: C:/Users/Talin for tech/Desktop/hom.py ===============
inter student name:hala
the user is not graduted
>>> 
```

B-


hom.py - C:/Users/Talin for tech/Desktop/hom.py (3.9.7)
File Edit Format Run Options Window Help
IDLE Shell 3.9.7
File Edit Shell Debug Options Window Help
Ln: 4 Col: 70

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

```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> 
================= RESTART: C:/Users/Talin for tech/Desktop/hom.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,
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 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,
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 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]
>>> 
```
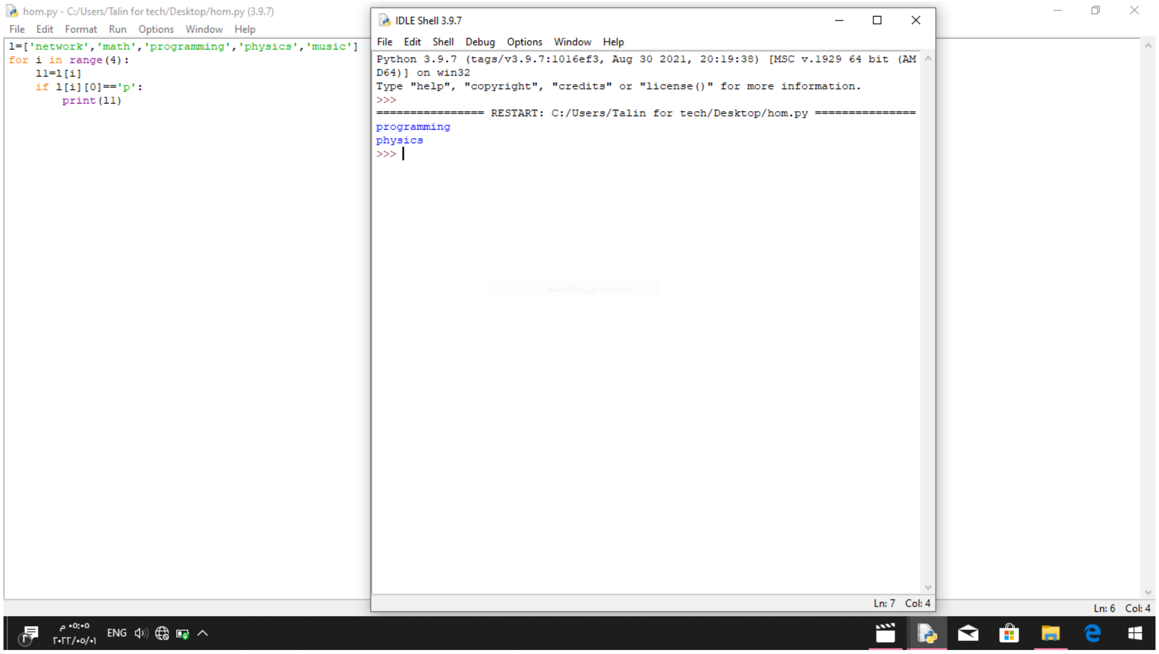

C-

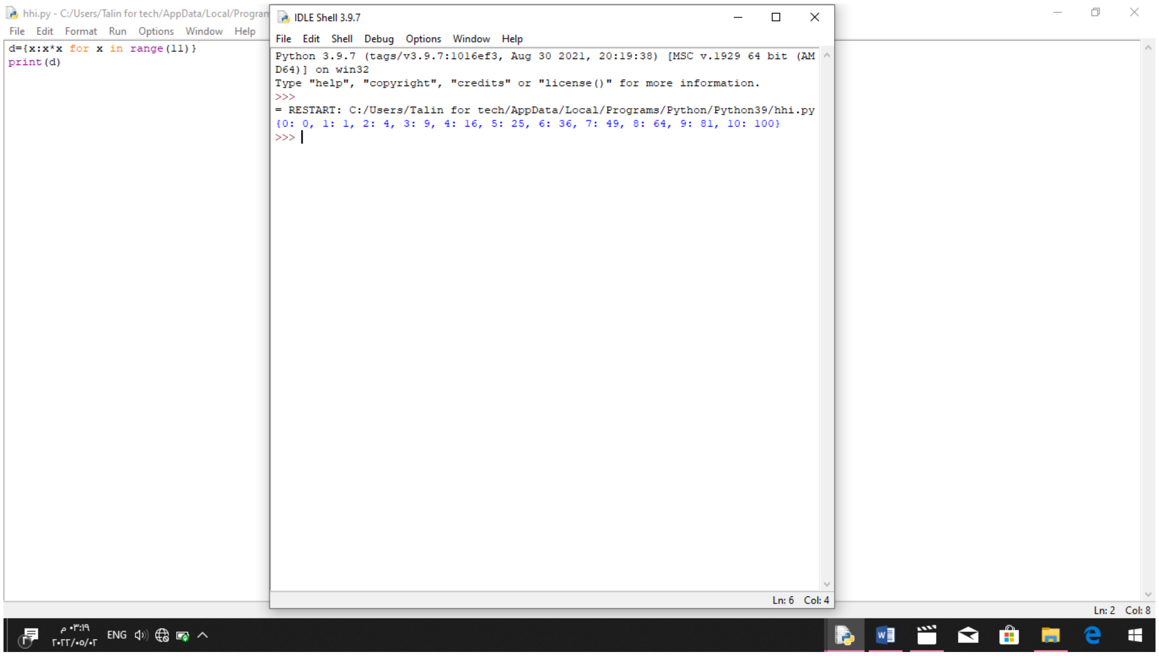


hom.py - C:/Users/Talin for tech/Desktop/hom.py (3.9.7)
File Edit Format Run Options Window Help
IDLE Shell 3.9.7
File Edit Shell Debug Options Window Help
Ln: 7 Col: 4
Ln: 6 Col: 4
ENG

```
l=['network','math','programming','physics','music']
for i in range(4):
    l1=l[i]
    if l[i][0]=='p':
        print(l1)
```

```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:/Users/Talin for tech/Desktop/hom.py ===============
programming
physics
>>> 
```

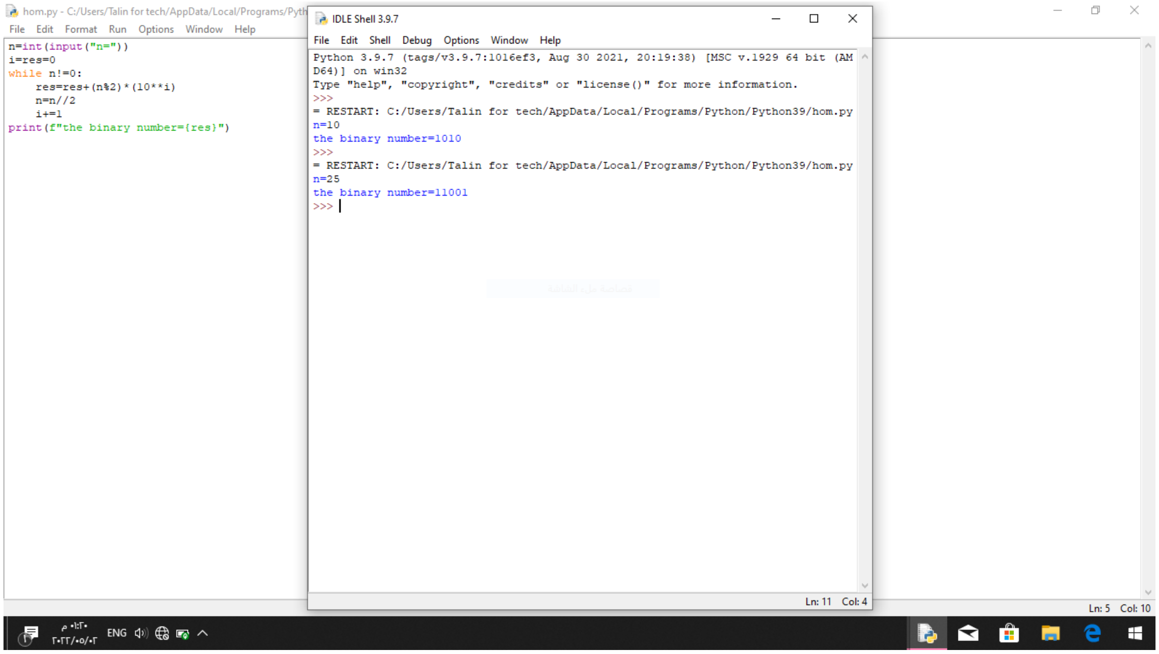
D-


hhi.py - C:/Users/Talin for tech/AppData/Local/Program
File Edit Format Run Options Window Help
IDLE Shell 3.9.7
File Edit Shell Debug Options Window Help
Ln: 6 Col: 4
Ln: 2 Col: 8
ENG

```python
d={x:x*x for x in range(11)}
print(d)
```

```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Talin for tech/AppData/Local/Programs/Python/Python39/hhi.py
{0: 0, 1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100}
>>>
```

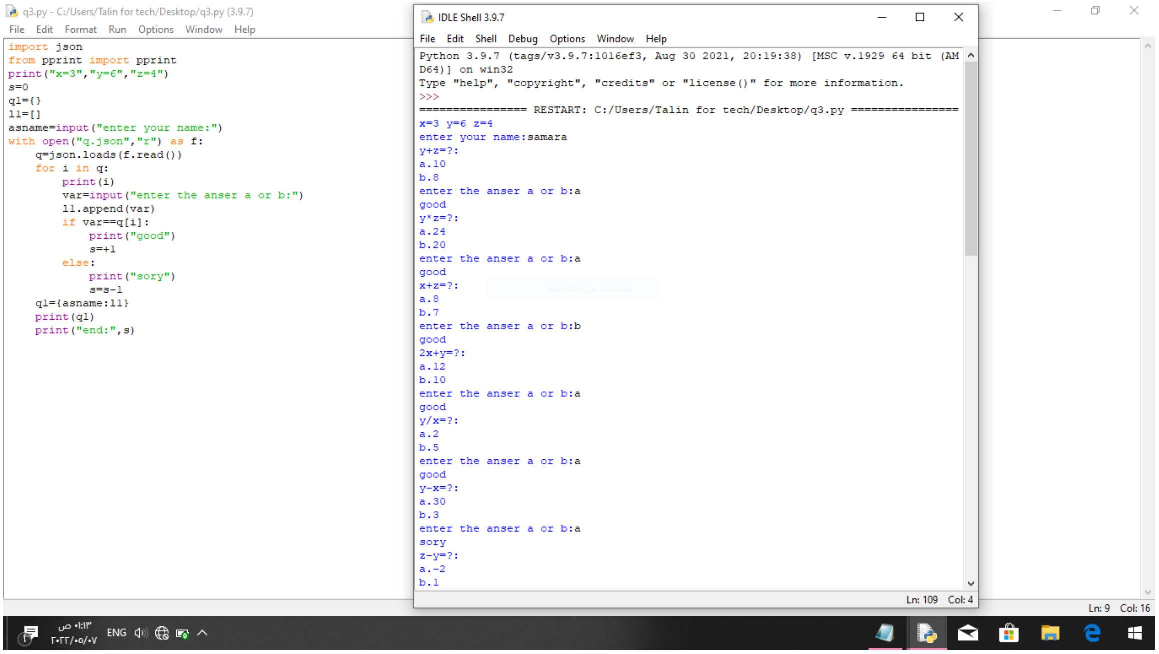
Question 2:


hom.py - C:/Users/Talin for tech/AppData/Local/Programs/Pyth
File Edit Format Run Options Window Help
IDLE Shell 3.9.7
File Edit Shell Debug Options Window Help
Ln: 11 Col: 4
Ln: 5 Col: 10
ENG

```python
n=int(input("n="))
i=res=0
while n!=0:
    res=res+(n%2)*(10**i)
    n=n//2
    i+=1
print(f"the binary number={res}")
```

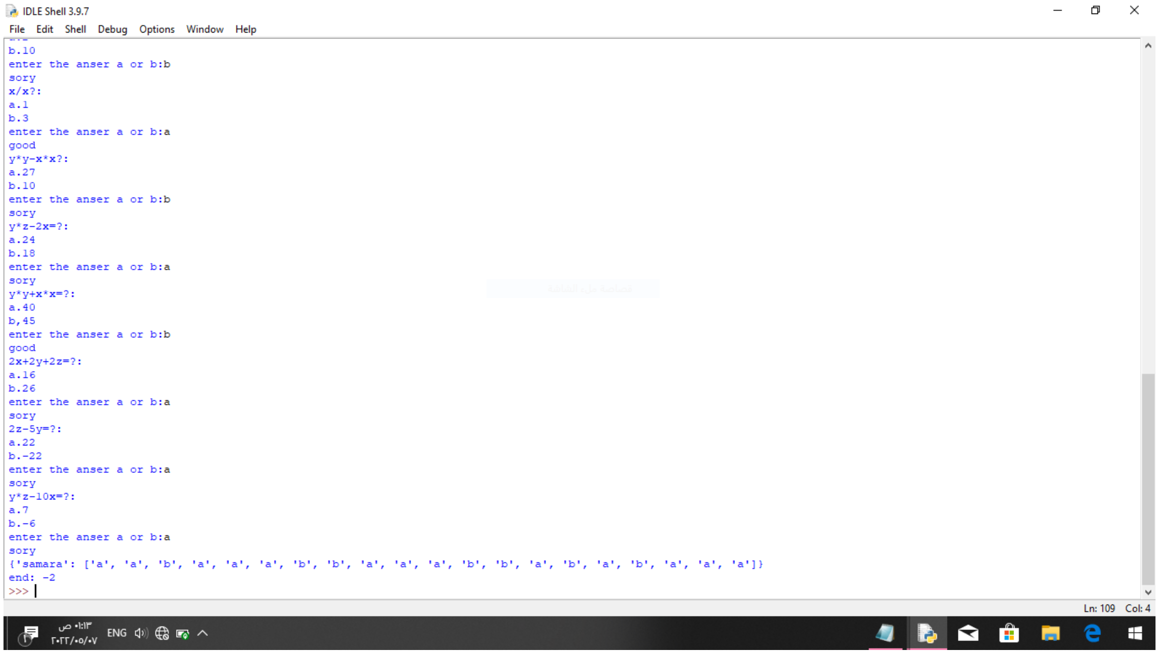
```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Talin for tech/AppData/Local/Programs/Python/Python39/hom.py
n=10
the binary number=1010
>>>
= RESTART: C:/Users/Talin for tech/AppData/Local/Programs/Python/Python39/hom.py
n=25
the binary number=11001
>>>
```

Question 3:

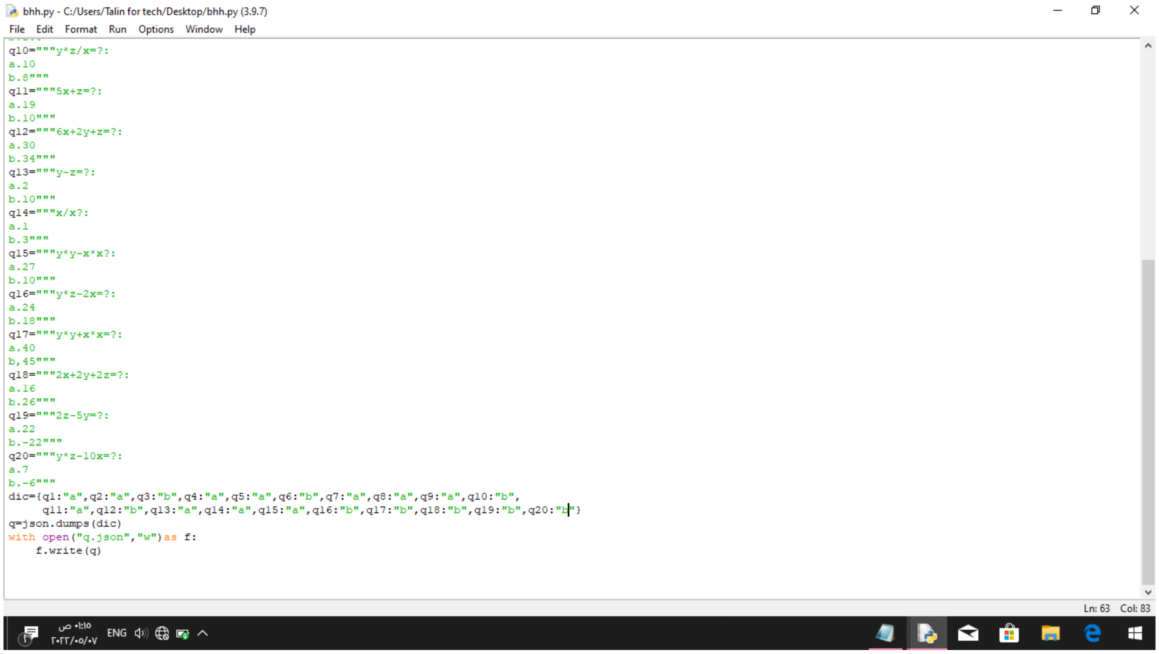

q3.py - C:/Users/Talin for tech/Desktop/q3.py (3.9.7)
File Edit Format Run Options Window Help
IDLE Shell 3.9.7
File Edit Shell Debug Options Window Help
Ln: 109 Col: 4
Ln: 9 Col: 16
٠١:١٣ ص
٢٠٢٢/٠٥/٠٧
ENG

```python
import json
from pprint import pprint
print("x=3","y=6","z=4")
s=0
ql={}
l1=[]
asname=input("enter your name:")
with open("q.json","r") as f:
    q=json.loads(f.read())
    for i in q:
        print(i)
        var=input("enter the anser a or b:")
        l1.append(var)
        if var==q[i]:
            print("good")
            s=+1
        else:
            print("sory")
            s=s-1
    ql={asname:l1}
    print(ql)
    print("end:",s)
```

```
Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AM
D64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
================ RESTART: C:/Users/Talin for tech/Desktop/q3.py ================
x=3 y=6 z=4
enter your name:samara
y+z=?:
a.10
b.8
enter the anser a or b:a
good
y*z=?:
a.24
b.20
enter the anser a or b:a
good
x+z=?:
a.8
b.7
enter the anser a or b:b
good
2x+y=?:
a.12
b.10
enter the anser a or b:a
good
y/x=?:
a.2
b.5
enter the anser a or b:a
good
y-x=?:
a.30
b.3
enter the anser a or b:a
sory
z-y=?:
a.-2
b.1
```



```
b.10
enter the anser a or b:b
sory
x/x?:
a.1
b.3
enter the anser a or b:a
good
y*y-x*x?:
a.27
b.10
enter the anser a or b:b
sory
y*z-2x=?:
a.24
b.18
enter the anser a or b:a
sory
y*y+x*x=?:
a.40
b,45
enter the anser a or b:b
good
2x+2y+2z=?:
a.16
b.26
enter the anser a or b:a
sory
2z-5y=?:
a.22
b.-22
enter the anser a or b:a
sory
y*z-10x=?:
a.7
b.-6
enter the anser a or b:a
sory
{'samara': ['a', 'a', 'b', 'a', 'a', 'a', 'b', 'b', 'a', 'a', 'a', 'b', 'b', 'a', 'b', 'a', 'b', 'a', 'a', 'a']}
end: -2
>>> 
```



```
q10="""y*z/x=?:
a.10
b.8"""
q11="""5x+z=?:
a.19
b.10"""
q12="""6x+2y+z=?:
a.30
b.34"""
q13="""y-z=?:
a.2
b.10"""
q14="""x/x?:
a.1
b.3"""
q15="""y*y-x*x?:
a.27
b.10"""
q16="""y*z-2x=?:
a.24
b.18"""
q17="""y*y+x*x=?:
a.40
b,45"""
q18="""2x+2y+2z=?:
a.16
b.26"""
q19="""2z-5y=?:
a.22
b.-22"""
q20="""y*z-10x=?:
a.7
b.-6"""
dic={q1:"a",q2:"a",q3:"b",q4:"a",q5:"a",q6:"b",q7:"a",q8:"a",q9:"a",q10:"b",
     q11:"a",q12:"b",q13:"a",q14:"a",q15:"a",q16:"b",q17:"b",q18:"b",q19:"b",q20:"b"}
q=json.dumps(dic)
with open("q.json","w")as f:
    f.write(q)
```