Q1-1

```
name= input ('enter your name')
l=['ali','ahmad','hasan','sam','sally','deemah','john','karam']
if name in l:
    num = int(input ( 'enter the number of courses'))
    if num > 64:
        print('wrong value')
    elif num==64:
        print ('congratulation '+name+' you are a graduate')
    else:
        print ('good luck '+name+' you are not a graduate')

else:
    print ('sorry '+name+' you are not in list')
```

---

enter your name deemah

enter the number of courses 45

good luck deemah you are not a graduate

---

enter your name Ali

sorry Ali you are not in list

---

enter your name hasan

enter the number of courses 64

congratulation hasan you are a graduate

Q1-2

```
h=[x for x in range(1,1000) if x%2!= 0]
print (h)
```

Q1_3

```
L=['Network','Math', 'pragramming','physics','Music']
for i in range(len(L)):
    if L[i][0]=='p':
        print (L[i])
```

C:\Users\ASUS\PycharmProjects\untitled\venv\Scripts\python.exe "C:/Users/ASUS/Desktop/مجلد جديد (3)/Q1_3.py"

pragramming

physics

Q1_4

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

C:\Users\ASUS\PycharmProjects\untitled\venv\Scripts\python.exe "C:/Users/ASUS/Desktop/مجلد جديد (3)/Q1_4.py"

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

Q 2

```
l=[]
d=int(input('enter a decimal number:'))
while d>=1:
    b_num=d%2
    d=d//2
    l.append(b_num)
l.reverse()
print(l)
```

enter a decimal number:10

[1, 0, 1, 0]

enter a decimal number:34

[1, 0, 0, 0, 1, 0]

```
import json
q = {}   #Questions
s = 0    #score
num =1   #number of questions
a= open("q.json",'r')
q = json.load(a)
a.close()
name= input("please enter your full name:")
print("welcome" , name , "to your Quiz")
print("writ t or f")
for qu in q.keys():
    print("Q",num,qu)
    res= input("the answer is")
    if res.upper()==q[qu].upper():
        s=s+1
        print("very good")
        num=num+1
    else:
        print("wrong answer")
        num=num+1

    result={name:s}
    f= open("score.txt",'w')
    result=json.dump(result,f)
    f.close()
```

q.json


```
{ "For GSM system, TDMA is used on the A interface":"f",
  "For GSM systems, Signaling connection Control Part is a function of
BSC":"t",
  "Rf power adjustements in GSM occur in 2 dB steps":"t",
  "MSC in GSM element that provides a connection to the wider PSTN":"f",
  "The power level numbers of any GSM system is the same": "f",
  "GSM is considered a MAN": "f",
  "in TDD single radio frequency can be used": "t",
  "RSS is not a part og GSM": "f",
  "01:db:7f:a2:e4:6e is a valid mac address" : "t",
  "0::12.123.15.28 is a valid ipv6 address": "t",
  "0::g2:0:23 is a valid ipv6 address": "f",
  "115.227.15.202 is a class b ip address": "f",
  "199.34.76.79/28 is the broad cast address of its block": "t",
  "2c-02-44-d3-8f-b3 specifies a data link logical address": "f",
  "a passive hub has a table used in filtering decisions": "f",
  "the first layer in OSI model is Transport": "f",
  "HTTP is in Application layer":"t",
  "OSI model has 5 layers": "f",
  "IP addresses are in Presentation layer" : "f",
  "Data in network layer are called Packets": "t"
  }
```


Score.txt


```
{"deemah daoud": 12}
```