In [19]:
```
# Ejercicio 3: para bucles , tienda de fruta

fruites = {'platan':1.35, 'poma':0.80, 'pera':0.85,'taronja':0.70}

def mostrar_menu_opciones():
    opciones = ["0.Salir", "1.Quina fruita vols?", "2.Quines fruites tenim",
                "3.Afegir fruita", "4.Eliminar fruita"]
    opcion = ""
    while opcion not in range(5):
        print (opciones)
        try:
            opcion = int(input("Opcion: "))
        except Exception as e:
            print("Opción inválida")
    return(opcion)

def imprimir_dict():
    for fruita in fruites :
        print (fruita, fruites[fruita])



opcion = mostrar_menu_opciones()

while opcion != 0:

    if opcion == 1:
        fruita = input("Quina fruita vols? ")
        print ("el preu de ", fruita, "és", round(fruites[fruita], 2))
    elif opcion == 2:
        imprimir_dict()
    elif opcion == 3:
        fruitan = input ("Quina fruita vols vols afegir? " )
        preun = float(input ("Amb quin preu? "))
        fruites[fruitan] = preun
        imprimir_dict()
    elif opcion == 4:
        imprimir_dict()
        fruitae = input ("Quina fruita vols eliminar? ")
        if fruitae in fruites:
            fruites.pop(fruitae)
        else :
            print("No està a la llista")
        imprimir_dict()

    opcion = mostrar_menu_opciones()
```

```
['0.Salir', '1.Quina fruita vols?', '2.Quines fruites tenim', '3.Afegir fruita', '
4.Eliminar fruita']
Opcion: 3
Quina fruita vols vols afegir? kiwi
Amb quin preu? 0.99
platan 1.35
poma 0.8
pera 0.85
taronja 0.7
kiwi 0.99
['0.Salir', '1.Quina fruita vols?', '2.Quines fruites tenim', '3.Afegir fruita', '
4.Eliminar fruita']
Opcion: 4
platan 1.35
poma 0.8
pera 0.85
taronja 0.7
kiwi 0.99
Quina fruita vols eliminar? patata
No està a la llista
platan 1.35
poma 0.8
pera 0.85
taronja 0.7
kiwi 0.99
['0.Salir', '1.Quina fruita vols?', '2.Quines fruites tenim', '3.Afegir fruita', '
4.Eliminar fruita']
Opcion: 4
platan 1.35
poma 0.8
pera 0.85
taronja 0.7
kiwi 0.99
Quina fruita vols eliminar? pera
platan 1.35
poma 0.8
taronja 0.7
kiwi 0.99
['0.Salir', '1.Quina fruita vols?', '2.Quines fruites tenim', '3.Afegir fruita', '
4.Eliminar fruita']
Opcion: 1
Quina fruita vols? poma
el preu de  poma és 0.8
['0.Salir', '1.Quina fruita vols?', '2.Quines fruites tenim', '3.Afegir fruita', '
4.Eliminar fruita']
Opcion: 1
Quina fruita vols? kiwi
el preu de  kiwi és 0.99
['0.Salir', '1.Quina fruita vols?', '2.Quines fruites tenim', '3.Afegir fruita', '
4.Eliminar fruita']
Opcion: 0
```

In [24]:
```
# Ejercicio 2 para bucles, Muestra un tablero de ajedrez tomando como base la práct
from PIL import Image, ImageDraw
w, h = 802, 802
img = Image.new("RGB", (w, h))
dib = ImageDraw.Draw(img)


for linea in range (8):
        for i in range (8):
            col = i*100
            lin = linea * 100
            taulell = [(col, lin), (col + 100, lin + 100)]
            print(taulell)
            if linea %2 > 0 :
                if i %2 > 0 :
                    color = 'black'
                else :
                    color = 'white'
            else:
                if i %2 > 0:
                    color = 'white'
                else:
                    color = 'black'
            dib.rectangle(taulell, fill = color , outline ="yellow")

img.show()
```

```
[(0, 0), (100, 100)]
[(100, 0), (200, 100)]
[(200, 0), (300, 100)]
[(300, 0), (400, 100)]
[(400, 0), (500, 100)]
[(500, 0), (600, 100)]
[(600, 0), (700, 100)]
[(700, 0), (800, 100)]
[(0, 100), (100, 200)]
[(100, 100), (200, 200)]
[(200, 100), (300, 200)]
[(300, 100), (400, 200)]
[(400, 100), (500, 200)]
[(500, 100), (600, 200)]
[(600, 100), (700, 200)]
[(700, 100), (800, 200)]
[(0, 200), (100, 300)]
[(100, 200), (200, 300)]
[(200, 200), (300, 300)]
[(300, 200), (400, 300)]
[(400, 200), (500, 300)]
[(500, 200), (600, 300)]
[(600, 200), (700, 300)]
[(700, 200), (800, 300)]
[(0, 300), (100, 400)]
[(100, 300), (200, 400)]
[(200, 300), (300, 400)]
[(300, 300), (400, 400)]
[(400, 300), (500, 400)]
[(500, 300), (600, 400)]
[(600, 300), (700, 400)]
[(700, 300), (800, 400)]
[(0, 400), (100, 500)]
[(100, 400), (200, 500)]
[(200, 400), (300, 500)]
[(300, 400), (400, 500)]
[(400, 400), (500, 500)]
[(500, 400), (600, 500)]
[(600, 400), (700, 500)]
[(700, 400), (800, 500)]
[(0, 500), (100, 600)]
[(100, 500), (200, 600)]
[(200, 500), (300, 600)]
[(300, 500), (400, 600)]
[(400, 500), (500, 600)]
[(500, 500), (600, 600)]
[(600, 500), (700, 600)]
[(700, 500), (800, 600)]
[(0, 600), (100, 700)]
[(100, 600), (200, 700)]
[(200, 600), (300, 700)]
[(300, 600), (400, 700)]
[(400, 600), (500, 700)]
[(500, 600), (600, 700)]
[(600, 600), (700, 700)]
[(700, 600), (800, 700)]
[(0, 700), (100, 800)]
[(100, 700), (200, 800)]
[(200, 700), (300, 800)]
```

```
[(300, 700), (400, 800)]
[(400, 700), (500, 800)]
[(500, 700), (600, 800)]
[(600, 700), (700, 800)]
[(700, 700), (800, 800)]
```

In [49]:
```
# Ejercicio 1 Pide el nombre de una carpeta de imágenes y crea una miniatura de tod
# Ayuda para  obtenir todos los archivos de una carpeta usa  os.listdir('dir_path')

import os, sys

# Open a file
path = r'C:\Users\Alumne_mati1\Desktop\Img_pract_bucles'
dirs = os.listdir( path )

# This would print all the files and directories
from PIL import Image, ImageDraw

dib = ImageDraw.Draw(img)

for file in dirs:
    nom = path + "/" + file
    im = Image.open(nom)
#--------------------im.show()-------------------------per veure les imatges una a u
    if nom == nom:
        nom.open()
        size = (30, 30)
        img.thumbnail(size)
        img.save(r'C:\Users\Alumne_mati1\Desktop\Img_pract_bucles_mini', "JPEG")
        print(filep, nom)

    print(file, nom)



# img.save(r'C:\Users\Alumne_mati1\Desktop\Img_pract_bucles', "JPEG")
# size = (128, 128)
# img.thumbnail(size)
# img.save(r'C:\Users\Alumne_mati1\Desktop\Img_pract_bucles_mini', "JPEG")
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
Cell In[49], line 20
     18 #--------------------im.show()-------------------------per veure les imatges
una a una
     19     if nom == nom:
---> 20         nom.open()
     21         size = (30, 30)
     22         img.thumbnail(size)

AttributeError: 'str' object has no attribute 'open'
```

In [ ]: