

```

#----- Ficha 6 -----
#1
#-a)
def listCount(l):
    count = 0
    for i in l:
        count+=1
    return l

"""l = [1,2,3,4,5]
print(count)"""

#-b)
def listadd(l):
    while True:
        x = input("Add Number")
        if x != "":
            l.append(int(x))
        else:
            break
    return l

"""l=[]
print(listadd(l))"""

#-c)
def sumlist(l):
    soma = 0
    for i in l:
        soma+=i
    return(soma)

"""l=[1,2,3]
print(sumlist(l))"""

#-d)
def listcompare(l):
    x = int(input("Number for comparasion"))
    count=0
    c=[]
    for i in l:
        if i<x:
            count+=1
            c.append(i)
    return(c,count)

"""l=[1,2,3]
print(listcompare(l))"""

#-e)
def listmax(l):
    m = l[0]
    for i in l:
        if i>m:
            m=i
    return(m)

"""l=[100,200,3,50]

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```
print(listmax(l)) """
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#-f)
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```
def maxmet(m,l):  
    m = m/2  
    count=0  
    for i in l:  
        if i<m:  
            count+=1  
    return(count)
```

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"""l=[1,2,3,4,5,6]  
m = listmax(l)  
print(m,maxmet(m,l)) """
```

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#-g)
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```
def substitute(l,x,y):  
    for i in range(len(l)):  
        if l[i]==x:  
            l[i]=y  
    return(l)
```

```
"""l=[1,2,3,2,2,2,69]  
x=2  
y=50  
print(substitute(l,x,y)) """
```

```
#-h)
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```
def inverse(l):  
    b = l[::-1]  
    return b
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```
"""l=[1,2,3]  
print(inverse(l)) """
```

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#2
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```
#-a)
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```
def call(tel,nome,x):  
    for i in range(len(tel)):  
        if x == tel[i]:  
            return(tel[i],nome[i])  
    return(x,'Unidentified')
```

```
#-b)
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```
def search(tel,nome):  
    x= input("Search name:")  
    b=[]  
    for i in range(len(nome)):  
        if x in nome[i]:  
            b.append(tel[i])  
    return(b)
```

```
#-c)
```

```
def menu():  
    tel = ['938555182', '234567111', '776882333']  
    nome = ['Angelina', 'Brad', 'Claudia']  
    a = int(input('What would you like to do?\n1)Test Call\n2)Test  
Search\nAnything else to exit'))
```

```

    if a==1:
        x = input()
        print(call(tel,nome,x))
        menu()
    elif a == 2:
        print(search(tel,nome))
        menu()
    else:
        return('Baya')

#menu()

#3
def addTeam(teamList):
    more = "Y"
    while True:
        if more == "Y":
            team = input("Team Name -> ")
            teamList.append(team)
            more = input("Add more teams? Y/N ")
        else:
            break
    return(teamList)

def fights(teamList):
    for i in range(len(teamList)):
        c = 0
        while c <= len(teamList):
            if teamList[c] != teamList[i]:
                print(teamList[i], " VS ",
teamList[c])
                c+=1
            else:
                break

"""teamList=[]
print(addTeam(teamList))
print(fights(teamList))"""

#4)
def troco(pago,produto,caixa):
    troco = pago-produto
    print("Troco = ",troco,"$")
    a = 0
    b = 0
    c = 0
    d = 0
    e = 0
    f = 0
    g = 0
    h=0

    while caixa[7] != 0 and troco>=200:
        troco = troco-200
        caixa[7] = caixa[7]-1
        a +=1
    while caixa[6] != 0 and troco>=100:

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        troco = troco-100
        caixa[6] = caixa[6]-1
        b+=1
    while caixa[5] != 0 and troco>=50:
        troco = troco-50
        caixa[5] = caixa[5]-1
        c+=1
    while caixa[4] != 0 and troco>=20:
        troco = troco-20
        caixa[4] = caixa[4]-1
        d+=1
    while caixa[3] != 0 and troco>=10:
        troco = troco-10
        caixa[3] = caixa[3]-1
        e+=1
    while caixa[2] != 0 and troco>=5:
        troco = troco-5
        caixa[2] = caixa[2]-1
        f+=1
    while caixa[1] != 0 and troco>=2:
        troco = troco-2
        caixa[1] = caixa[1]-1
        g+=1
    while caixa[0] != 0 and troco>=1:
        troco = troco-1
        caixa[0] = caixa[0]-1
        h+=1
    if troco>0:
        print("I owe you ",troco,"$...sorry :(")
        print("Returned: {}x2Euro, {}x1Euro, {}x0.5Euro, {}x0.2Euro,
{}x0.1Euro, {}x0.05Euro, {}x0.02Euro,
{}x0.01Euro".format(a,b,c,d,e,f,g,h))
        return caixa

troco(2000,1700,[2,2,2,2,2,2,2,2])
#5)
def inverse(s):
    return(s[::-1])
#print(inverse('aylmao'))

#6)
def capitalize(s):
    final = ""
    for i in s.split(" "):
        i = i[0].upper()+i[1:]
        final +=(i + " ")
    return final

#print(capitalize('a tua mae De 4'))

#7)
def countdigits(a):
    c=0
    for i in a:
        if i.isalpha() == False and i!= " ":
            c+=1
    return(c)

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```
#print(countdigits('25 mil e quinhent0s'))
```

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#8)
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```
def acronym(a):  
    acronym = ""  
    for i in a.split(" "):  
        acronym += i[0].upper()  
    return(acronym)  
#print(acronym('A tua mae de 4'))
```

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#9)
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```
def palyndrome(a):  
    retVal = True  
    for i in range(1,len(a)):  
        if a[i] != a[-(i+1)]:  
            retVal = False  
            break  
    return(retVal)  
print(palyndrome('lomol'))
```