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#-----Answer Sheet: Problem: date management-----
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# Question1:
>>> s='12-03-2021'
>>> s.split()
['12-03-2021' ]
>>> s.split('-')
['12', '03', '2021']
>>> s.split('/')
['12-03-2021' ]
>>> s.replace('-', '/').split('/')
['12', '03', '2021']

# Question2:
def decouper(s,iter):
    new_s=s
    for c in iter:
        new_s=new_s.replace(c, '*')
    date_list=new_s.strip().split('*')
    return date_list

# Question3:
def liste_conv(l):
    try:
        return [int(k) for k in l]
    except:
        return []

# Question4:
mois=[
    {'nb_j':31, 'libelle':'Janvier'},
    {'nb_j':28, 'libelle':'Février'},
    {'nb_j':31, 'libelle':'Mars'},
    {'nb_j':30, 'libelle':'Avril'},
    {'nb_j':31, 'libelle':'Mai'},
    {'nb_j':30, 'libelle':'Juin'},
    {'nb_j':31, 'libelle':'Juillet'},
    {'nb_j':31, 'libelle':'Août'},
    {'nb_j':30, 'libelle':'Septembre'},
    {'nb_j':31, 'libelle':'Octobre'},
    {'nb_j':30, 'libelle':'Novembre'},
    {'nb_j':31, 'libelle':'Décembre'}
]
def date_correcte(d):
    if 1<=d[0]<=mois[d[1]]['nb_j'] and 1<=d[1]<=12 and d[2]<=9999: return True
    else: return False

# Question5:
def saisir_date():
    while True:
        dt=input("donner une date sous cette format JJ-MM-AAA ou JJ/MM/AAA")
        dt_decoupe=decouper(dt, '/-')
        dt_detail=liste_conv(dt_decoupe)
        if date_correcte(dt_detail):
            break
    return dt_detail

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# Question6:
def max_dates(d1,d2):
    if d1[-1]<d2[-1]:return d2
    elif d2[-1]<d1[-1]:return d1
    elif d1[1]<d2[1]:return d2
    elif d2[1]<d1[1]:return d1
    elif d2[0]<d1[0]:return d2
    elif d2[0]<d1[0]:return d1

# Question7:
def diff_date(d0,d1):
    years=d1[2]-d0[2]
    if (d1[1]>=d0[1]):
        months=d1[1]-d0[1]
    else:
        months=12+d1[1]-d0[1]
        years=years-1
    if d1[0]>d0[0]:jours=d1[0]-d0[0]
    else:jours=mois[d1[0]]['nb_j']+d1[0]-d0[0]
    return {'jour':jours,'month':months,'years':years}

# Question 8
def verifier_anniv():
    try:
        print('-----date de naissance----')
        date_naissance=saisir_date()
        while True:
            print('-----date qqe----')
            date_qque=saisir_date()
            if max_dates(date_naissance,date_qque):
                print('marche')
                break
            age_exac=diff_date(date_naissance,date_qque)
            print("l'age exacte
est :",age_exac['jour'], "jours",age_exac['month'], "mois",age_exac['years'], "ans")
            if age_exac['jour']==age_exac['month']==0:
                print('Bonne anniversaire')
    except:
        print("il y a eu une erreur")
        verifier_anniv() # Pour forcer l'exécution <facultatif>

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