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# code is generated for n Cows
n=int(input("Enter No of Cows in Herds"))
Cowlist=n*[0]
cowids=n*[0]
cowid=1
for i in range(n):
    day_yield=weekly_yield=avg_weekly_yield=count12=0
    while True:
        cowid=int(input("Enter the 3 Digit- Cow_ID: ="))
        if((cowid>999 or cowid<100) or (cowid in cowids)):
             cowid=int(input("Enter the 3 Digit- Cow_ID: ="))
        else:
            cowids[i]=[cowid]
            Cowlist[i]=[cowid]
            break;
    for k in range(7):
        print("Milk Yielding Day=",k+1)
        print("Morning Shift Yield of cow with cowid=",cowid)
        yield1=int(input())
        print("Evening Shift Yield of cow with cowid=",cowid)
        yield2=int(input())
        day_yield=yield1+yield2
        if day_yield<12:
            count12+=1
        Cowlist[i]+=[day_yield]
        weekly_yield+=day_yield
    Cowlist[i]+=[weekly_yield,count12]
    avg_weekly_yield=round(weekly_yield/7,1)
    Cowlist[i]+=[avg_weekly_yield]
print("Cowid\tDay1\tDay2\tDay3\tDay4\tDay5\tDay6\tDay7\tWeekly\tCount<12  Avg_Milk")
for k in range(n):

print('{}\t{}\t{}\t{}\t{}\t{}\t{}\t{}\t{}\t{}\t{}\t{}'.format(Cowlist[k][0],Cowlist[k][1
],Cowlist[k][2],Cowlist[k][3],Cowlist[k][4],Cowlist[k][5],Cowlist[k][6],Cowlist[k][7
],Cowlist[k][8],Cowlist[k][9],Cowlist[k][10]))
max1=Cowlist[0][8]
pos=0
for k in range(n):
    if Cowlist[k][8]>max1:
        max1=Cowlist[k][8]
        pos=k
print("Cowid=",Cowlist[pos][0]," has Produced Maximum Yield in Week=",max1)
print("FOllowing Cows has produced milk less than 12 liters for 4 or more days")
for k in range(n):
    if Cowlist[k][9]>=4:
         print("Cowid=",Cowlist[k][0])
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