

func

March 25, 2020

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[1]: import swisseph as swe
      #import math as m
      from math import ceil, modf, floor
      from datetime import datetime

      def astottariDasha(lon):
          gName = ''
          → ["Sukra", "Rabi", "Chandra", "Mangal", "Budha", "Sani", "Brihaspati", "Rahu"]
          nakshatraID = ceil(lon / 13.33)
          cName = ''
          dElapsed, dRem = 0.0, 0.0
          if 333.333333334 <= lon or lon < 26.666666667:
              if 333.333333334 <= lon:
                  dElapsed = ((lon - 333.333333334) * 21) / 53.333333 # Sukra
                  dRem = 21 - (((lon - 333.333333334) * 21) / 53.333333) # Sukra
              else:
                  dElapsed = ((lon + 26.666666667) * 21) / 53.333333
                  dRem = 21 - (((lon + 26.666666667) * 21) / 53.333333)
          elif 26.666666667 <= lon < 66.666666667:
              dElapsed = ((lon - 26.666666667) * 6) / 40 # Rabi
              dRem = 6 - (((lon - 26.666666667) * 6) / 40) # Rabi
          elif 66.666666667 <= lon < 120.000000001:
              dElapsed = ((lon - 66.666666667) * 15) / 53.333333 # Chandra
              dRem = 15 - (((lon - 66.666666667) * 15) / 53.333333) # Chandra
          elif 120.000000001 <= lon < 160.000000001:
              dElapsed = ((lon - 120.000000001) * 8) / 40 # Mangal
              dRem = 8 - (((lon - 120.000000001) * 8) / 40) # Mangal
          elif 160.000000001 <= lon < 213.333333334:
              dElapsed = ((lon - 160.000000001) * 17) / 53.333333 # Budha
              dRem = 17 - (((lon - 160.000000001) * 17) / 53.333333) # Budha
          elif 213.333333334 <= lon < 253.333333334:
              dElapsed = ((lon - 213.333333334) * 10) / 40 # Sani
              dRem = 10 - (((lon - 213.333333334) * 10) / 40) # Sani
          elif 253.333333334 <= lon < 293.333333334:
              dElapsed = ((lon - 253.333333334) * 19) / 40 # Brihaspati
              dRem = 19 - (((lon - 253.333333334) * 19) / 40) # Brihaspati
          elif 293.333333334 <= lon < 333.333333334:
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dElapsed = ((lon - 293.33333334) * 12) / 40 # Rahu
dRem = 12 - (((lon - 293.33333334) * 12) / 40) # Rahu

if nakshatraID in [1,2,26,27]:
    cName = gName[0]
elif nakshatraID in [3,4,5]:
    cName = gName[1]
elif nakshatraID in [6,7,8,9]:
    cName = gName[2]
elif nakshatraID in [10,11,12]:
    cName = gName[3]
elif nakshatraID in [13,14,15,16]:
    cName = gName[4]
elif nakshatraID in [17,18,19]:
    cName = gName[5]
elif nakshatraID in [20,21,22]:
    cName = gName[6]
elif nakshatraID in [23,24,25]:
    cName = gName[7]
return [dElapsed,dRem, cName]

def nakshatraName(nakshatraID):
    nName = [
        "Aswini","Bharani","Krittika","Rohini","Mrigashira","Ardra", \
        "Punarvasu","Pushya","Aslesha","Makha","Purva Phalguni","Uttara Phalguni", \
        "Hasta","Chitra","Swati","Visakha","Anuradha","Jyestha","Moola","Purva\
→Asadha", \
        "Uttara Asadha","Sravana","Dhanistha","Satabhisaj","Purva Bhadrapada", \
        "Uttara Bhadrapada","Revati"]
    return nName[nakshatraID - 1]

def vimshottariDasha( lunarLongitude):
    gName = \
    →["Ketu","Sukra","Rabi","Chandra","Mangal","Rahu","Brihaspati","Sani","Budha"]
    vimshottariSpan = [17,7,20,6,10,7,18,16,19]
    dElapsed, dRem = 0.0, 0.0
    nakshatraID = ceil(lunarLongitude / 13.33)
    if 0 <= lunarLongitude <360:
        N = nakshatraID
        dElapsed = (lunarLongitude - (N - 1) * 13.33333) * vimshottariSpan[N % \
    →9] / 13.33333
        dRem = vimshottariSpan[N % 9] - (lunarLongitude - (N - 1) * 13.33333) * \
    →vimshottariSpan[N % 9] / 13.33333
        return [dElapsed, dRem, gName[(nakshatraID - 1) % 9]]

def yoginiDasha(lunarLongitude):
    yoginiSpan = [5,6,7,8,1,2,3,4,5]

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    gName = "Ulka", "Siddha", "Sangkata", "Mangala", "Pingala", "Dhanya", "Bhramari", "Bhadrika""
    dElapsed, dRem = 0.0, 0.0
    nakshatraID = ceil(lunarLongitude / 13.33)
    if 0 <= lunarLongitude < 360:
        N = nakshatraID
        dElapsed = (( lunarLongitude - (N - 1) * 13.33333)) * yoginiSpan[(N % 8)] / 13.33333
        dRem = yoginiSpan[N % 8] - ((( lunarLongitude - (N - 1) * 13.33333)) * yoginiSpan[N % 8] / 13.33333)
    return [dElapsed, dRem, gName[(nakshatraID - 1) % 8]]

def astottariMahaDasha(birthDateTime, currentDateTime, astottariDasha, astottariDashaGraha):
    gName = "Sukra", "Rabi", "Chandra", "Mangal", "Budha", "Sani", "Brihaspati", "Rahu""
    astottariSpan = [21, 6, 15, 8, 17, 10, 19, 12]
    bhukta, bhogya = 0.0, 0.0
    dashaID, flag = 0, 0
    span = currentDateTime - birthDateTime
    currentAge = span / 360
    index = gName.index(astottariDashaGraha)
    while currentAge > 0:
        if flag == 0:
            bhukta = astottariDasha + currentAge
            bhogya = astottariSpan[index] - (astottariDasha + currentAge)
            currentAge = currentAge - (astottariSpan[index] - astottariDasha)
            dashaID = index
            index = (index + 1) % 8
            flag = 1
        else:
            bhukta = currentAge
            bhogya = astottariSpan[index] - currentAge
            currentAge = currentAge - astottariSpan[index]
            dashaID = index
            index = (index + 1) % 8
    return [dashaID, gName[dashaID], bhukta, bhogya]

def astottariAntarDasha(dashaID, bhukta):
    gName = "Sukra", "Rabi", "Chandra", "Mangal", "Budha", "Sani", "Brihaspati", "Rahu""
    astottariSpan = [21, 6, 15, 8, 17, 10, 19, 12]
    flag = 0
    index = dashaID
    mahaDasha = dashaID
    currentAge = bhukta
    while currentAge > 0:
        if flag == 0:

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        bhogya = (astottariSpan[mahaDasha] * astottariSpan[index] / 108) -
→currentAge
        currentAge = currentAge - (astottariSpan[mahaDasha] *
→astottariSpan[index] / 108)
        dashaID = index
        index = (index + 1) % 8
        flag = 1
    else:
        bhukta = currentAge
        bhogya = (astottariSpan[mahaDasha] * astottariSpan[index] / 108) -
→currentAge
        currentAge = currentAge - (astottariSpan[mahaDasha] *
→astottariSpan[index] / 108)
        dashaID = index
        index = (index + 1) % 8
    return [dashaID, gName[dashaID], bhukta, bhogya]

def vimshottariMahaDasha(birthDateTime, currentDateTime, lunarLongitude,
→vimDashaBhukta):
    gName = ["Ketu", "Sukra", "Rabi", "Chandra", "Mangal", "Rahu", "Brihaspati",
→\
        "Sani", "Budha", "Ketu", "Sukra", "Rabi", "Chandra", "Mangal", \
        "Rahu", "Brihaspati", "Sani", "Budha", "Ketu", "Sukra", "Rabi",
→"Chandra", \
        "Mangal", "Rahu", "Brihaspati", "Sani", "Budha"]
    vimsottariSpan =
→[7,20,6,10,7,18,16,19,17,7,20,6,10,7,18,16,19,17,7,20,6,10,7,18,16,19,17]
    vimSpan = {"Sani": 19, "Budha": 17, "Ketu": 7, "Sukra": 20, "Rabi": 6, "Chandra":
→10, "Mangal": 7, "Rahu": 18, "Brihaspati": 16}
    }
    flag = 0
    span = currentDateTime - birthDateTime
    currentAge = span / 360
    nakshatraID = ceil(lunarLongitude/13.33)
    index = nakshatraID - 1
    while currentAge > 0:
        if flag == 0:
            bhukta = vimDashaBhukta + currentAge
            bhogya = vimsottariSpan[index] - (vimDashaBhukta + currentAge)
            currentAge = currentAge - (vimsottariSpan[index] - vimDashaBhukta)
            dashaID = index
            index = (index + 1) % 27
            flag = 1
        else:
            bhukta = currentAge
            bhogya = vimsottariSpan[index] - currentAge

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        currentAge = currentAge - vimsottariSpan[index]
        dashaID = index
        index = (index + 1) % 27
    return [dashaID, gName[dashaID], bhukta, bhogya]

def vimshottariAntarDasha(dashaID, bhukta):
    gName = ["Ketu", "Sukra", "Rabi", "Chandra", "Mangal", "Rahu",
    ↪ "Brihaspati", "Sani", "Budha"]
    vimSpan = [7,20,6,10,7,18,16,19,17]
    flag = 0
    index = dashaID % 9
    mahaDasha = dashaID % 9
    currentAge = bhukta
    while currentAge > 0:
        if flag == 0:
            bhogya = (vimSpan[mahaDasha] * vimSpan[index] / 120) - currentAge
            currentAge = currentAge - (vimSpan[mahaDasha] * vimSpan[index] /
    ↪ 120)

            dashaID = index
            index = (index + 1) % 9
            flag = 1
        else:
            bhukta = currentAge
            bhogya = (vimSpan[mahaDasha] * vimSpan[index] / 120) - currentAge
            currentAge = currentAge - (vimSpan[mahaDasha] * vimSpan[index] /
    ↪ 120)

            dashaID = index
            index = (index + 1) % 9
    return [dashaID, gName[dashaID], bhukta, bhogya]

def yoginiMahaDasha(birthDateTime, currentDateTime, lunarLongitude,
    ↪ yogiDashaBhukta):
    gName = ["Ulka", "Siddha", "Sangkata", \
    ↪
    ↪ "Mangala", "Pingala", "Dhanya", "Bhramari", "Bhadrika", "Ulka", "Siddha", "Sangkata",
    ↪ \
    ↪
    ↪ "Mangala", "Pingala", "Dhanya", "Bhramari", "Bhadrika", "Ulka", "Siddha", "Sangkata",
    ↪ \
    ↪
    ↪ "Mangala", "Pingala", "Dhanya", "Bhramari", "Bhadrika", "Ulka", "Siddha", "Sangkata"]
    yoginiSpan = [6,7,8,1,2,3,4,5,6,7,8,1,2,3,4,5,6,7,8,1,2,3,4,5,6,7,8]
    yogName = {"Mangala": 1, "Pingala": 2, "Dhanya": 3, "Bhramari": 4, "Bhadrika":
    ↪ 5, "Ulka": 6, "Siddha": 7, "Sangkata": 8
    }

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flag = 0
span = currentDateTime - birthDateTime
currentAge = span / 360
nakshatraID = ceil(lunarLongitude/13.33)
index = nakshatraID - 1

while currentAge > 0:
    if flag == 0:
        bhukta = yogiDashaBhukta + currentAge
        bhogya = yoginiSpan[index] - (yogiDashaBhukta + currentAge)
        currentAge = currentAge - (yoginiSpan[index] - yogiDashaBhukta)
        dashaID = index
        index = (index + 1) % 8
        flag = 1
    else:
        bhukta = currentAge
        bhogya = yoginiSpan[index] - currentAge
        currentAge = currentAge - yoginiSpan[index]
        dashaID = index
        index = (index + 1) % 8
return [dashaID, gName[dashaID], bhukta, bhogya]

def yoginiAntarDasha(dashaID, bhukta):
    gName = ["Ulka", "Siddha", "Sangkata", "Mangala", "Pingla", "Dhanya",
    ↪ "Bhramari", "Bhadrika"]
    yoginiSpan = [6,7,8,1,2,3,4,5]
    flag = 0
    index = dashaID % 8
    mahaDasha = dashaID % 8
    currentAge = bhukta
    while currentAge > 0:
        if flag == 0:
            bhogya = (yoginiSpan[mahaDasha] * yoginiSpan[index] / 36) -
            ↪ currentAge
            currentAge = currentAge - (yoginiSpan[mahaDasha] *
            ↪ yoginiSpan[index] / 36)
            dashaID = index
            index = (index + 1) % 8
            flag = 1
        else:
            bhukta = currentAge
            bhogya = (yoginiSpan[mahaDasha] * yoginiSpan[index] / 36) -
            ↪ currentAge
            currentAge = currentAge - (yoginiSpan[mahaDasha] *
            ↪ yoginiSpan[index] / 36)
            dashaID = index
            index = (index + 1) % 8

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    return [dashaID, gName[dashaID], bhukta, bhogya]

def yMDD(yr):
    rMN = modf(yr)[0]*12
    rDY = modf(rMN)[0]*30
    rDD = modf(rDY)[0]*60
    return [floor(yr), floor(rMN), floor(rDY), rDD]
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