Table of Contents

[Package Structure: 1](#_Toc102314965)

[Vimsottari Dhasa - functions 1](#_Toc102314966)

[Import 1](#_Toc102314967)

[Lambda functions 1](#_Toc102314968)

[get\_vimsottari\_dhasa\_bhukthi (jd, place) 1](#_Toc102314969)

[Ashtottari Dhasa - functions 1](#_Toc102314970)

[Import 1](#_Toc102314971)

[Lambda functions 1](#_Toc102314972)

[get\_ashtottari\_dhasa\_bhukthi(jd, place) 1](#_Toc102314973)

[Narayana Dhasa - functions 1](#_Toc102314974)

[Import 1](#_Toc102314975)

[narayana\_dhasa\_for\_divisional\_chart (jd\_at\_dob, place, dob, years\_from\_dob=0, divisional\_chart\_factor=1) 1](#_Toc102314976)

[Lagna Kendraadhi Raasi Dhasa (Moola) - functions 1](#_Toc102314977)

[Import 1](#_Toc102314978)

[moola\_dhasa (chart, dob) 1](#_Toc102314979)

[Sudasa Dhasa - functions 1](#_Toc102314980)

[Import 1](#_Toc102314981)

[sudasa\_dhasa (chart, sree\_lagna\_house, sree\_lagna\_longitude, dob) 1](#_Toc102314982)

[Drig Dhasa - functions 1](#_Toc102314983)

[Import 1](#_Toc102314984)

[drig\_dhasa(chart, dob) 1](#_Toc102314985)

[Nirayana Shoola Dhasa - functions 1](#_Toc102314986)

[Import 1](#_Toc102314987)

[nirayana\_shoola\_dhasa (chart, dob) 1](#_Toc102314988)

[Shoola Dhasa - functions 1](#_Toc102314989)

[Import 1](#_Toc102314990)

[shoola\_dhasa(chart, dob) 1](#_Toc102314991)

[Kalachakra Dhasa Functions 1](#_Toc102314992)

[Imports 1](#_Toc102314993)

[kalachakra\_dhasa(lunar\_longitude, dob) 1](#_Toc102314994)

[Sudharsana Chakra Dhasa - functions 1](#_Toc102314995)

[Import 1](#_Toc102314996)

[sudharsana\_chakra\_dhasa\_for\_divisional\_chart (jd\_at\_dob, place, dob, years\_from\_dob=0, divisional\_chart\_factor=1) 1](#_Toc102314997)

[Mudda (Varsha Vimsottari) - functions 1](#_Toc102314998)

[Import 1](#_Toc102314999)

[Lambda functions 1](#_Toc102315000)

[varsha\_vimsottari\_dhasa\_bhukthi(jd, place, years) 1](#_Toc102315001)

[Patyayini - functions 1](#_Toc102315002)

[Import 1](#_Toc102315003)

[patyayini\_dhasa (jd\_years, place, ayanamsa\_mode='Lahiri', divisional\_chart\_factor=1) 1](#_Toc102315004)

# Package Structure:

hora

!- horoscope

!- horoscope.py - horoscope class

!- chart - chart package

!- arudhas.py - arudhas, argala, virodhargal

!- ashtavarga.py - ashtavarga, trikona sodhana, ekadhipatya\_sodhana, sodhaya pinda

!- charts.py - divisional charts, planet combustion, retrograde

!- house.py - aspects, drishti,stronger planets/raasi, kaarakas

!- yoga.py - 100+ yogas

!- raja\_yoga.py - raja\_yoga and its sub-types

!- dhasa - dhasa package

!- ashtottari.py - ashtottari dhasa-bhuthi

!- drig.py - drigdhasa-bhuthi

!- kalachakra.py - kalachakra dhasa-bhuthi

!- moola.py - moola dhasa-bhuthi

!- mudda.py - mudda dhasa-bhuthi

!- narayana.py - narayana dhasa-bhuthi

!- nirayana.py - nirayana dhasa-bhuthi

!- patyayini.py - patyayini dhasa-bhuthi

!- shoola.py - shoola dhasa-bhuthi

!- sudasa.py - sudasa dhasa-bhuthi

!- sudharsana\_chakra.py - sudharsana\_chakra dhasa-bhuthi

!- vimsottari.py - vimsottari dhasa-bhuthi

!- match - marriage compatibility package

!- compatibility.py - marriage compatibility

!- transit - tajaka package

!- tajaka.py - annual, monthly and 60 hour charts, muntha, vargeeya balas, tajaka lord

!- tajaka\_yoga.py - tajaka yogas

!- saham.py - 36 sahams

# Vimsottari Dhasa - functions

## Import

import datetime

from collections import OrderedDict as Dict

import swisseph as swe

from hora import const

from hora.panchanga import panchanga

## Lambda functions

vimsottari\_adhipati = lambda nak: const.vimsottari\_adhipati\_list[nak % (len(const.vimsottari\_adhipati\_list))]

## get\_vimsottari\_dhasa\_bhukthi (jd, place)

provides Vimsottari dhasa bhukthi for a given date in julian day (includes birth time)

@param jd: Julian day for birthdate and birth time

@return: a list of [dhasa\_lord,bhukthi\_lord,bhukthi\_start]

Example: [ [7, 5, '1915-02-09'], [7, 0, '1917-06-10'], [7, 1, '1918-02-08'],...]

# Ashtottari Dhasa - functions

Calculates Ashtottari (=120) Dasha-bhukthi-antara-sukshma-prana

## Import

import swisseph as swe

from collections import OrderedDict as Dict

import hora.panchanga

import datetime

## Lambda functions

sidereal\_year = panchanga.sidereal\_year some say 360 days, others 365.25 or 365.2563 etc

human\_life\_span\_for\_ashtottari\_dhasa = 108

{ashtottari adhipati:[(starting\_star\_number,ending\_star\_number),dasa\_length]}

ashtottari longitude range: (starting\_star\_number-1) \* 360/27 TO (ending\_star\_number) \* 360/27

Example: 66.67 to 120.00 = 53 deg 20 min range

ashtottari\_adhipathi\_list = [swe.SUN,swe.MOON,swe.MARS,swe.MERCURY,swe.SATURN,swe.JUPITER,swe.RAHU,swe.VENUS]

ashtottari\_adhipathi\_dict = {swe.SUN:[(6,9),6],swe.MOON:[(10,12),15],swe.MARS:[(13,16),8],swe.MERCURY:[(17,19),17],

swe.SATURN:[(20,22),10],swe.JUPITER:[(23,25),19],swe.RAHU:[(26,2),12],swe.VENUS:[(3,5),21]}

## get\_ashtottari\_dhasa\_bhukthi(jd, place)

provides Ashtottari dhasa bhukthi for a given date in julian day (includes birth time)

@param jd: Julian day for birthdate and birth time

@return: a list of [dhasa\_lord,bhukthi\_lord,bhukthi\_start]

Example: [ [7, 5, '1915-02-09'], [7, 0, '1917-06-10'], [7, 1, '1918-02-08'],...]

# Narayana Dhasa - functions

## Import

from hora import const,utils

from hora.horoscope.chart import charts

from hora.horoscope.chart.house import \*

import swisseph as swe

from hora.panchanga import panchanga

## narayana\_dhasa\_for\_divisional\_chart (jd\_at\_dob, place, dob, years\_from\_dob=0, divisional\_chart\_factor=1)

calculate narayana dhasa for divisional charts / annual charts

for just divisional charts - use divisional\_chart\_factor and set years\_from\_dob = 0

for annual charts use years\_from\_dob the non zero value

@param jd\_at\_dob: Julian day for birthdate and birth time

@param place: pancganga.Place Struct ('place\_name',latitude,longitude,timezone)

@param dob: Date of birth as a tuple e.g. (1999,12,31)

@param years\_from\_dob: years of from year of birth

@param divisional\_chart\_factor: integer of divisional chart 1=Rasi, 2=D2, 9=D9 etc

@return: 2D list of [dhasa\_lord,dhasa\_start,[Bhukthi\_lord1,bhukthi\_lord2,], dhasa\_duraation

Example: [ [7, '1993-6-1', '1996-6-1', [7, 8, 9, 10, 11, 0, 1, 2, 3, 4, 5, 6], 3], ...]

# Lagna Kendraadhi Raasi Dhasa (Moola) - functions

## Import

from hora import const, utils

from hora.horoscope.chart.house import \*

from hora.horoscope.dhasa import narayana

## moola\_dhasa (chart, dob)

calculate Lagna Kendraadhi dhasa aka Moola Dhasa

@param chart: house\_to\_planet\_list

Example: ['','','','','2','7','1/5','0','3/4','L','','6/8'] 1st element is Aries and last is Pisces

@param dob: Date of birth as a tuple e.g. (1999,12,31)

@return: 2D list of [dhasa\_lord,dhasa\_start,[Bhukthi\_lord1,bhukthi\_lord2,], dhasa\_duraation

Example: [ [7, '1993-6-1', '1996-6-1', [7, 8, 9, 10, 11, 0, 1, 2, 3, 4, 5, 6], 3], ...]

# Sudasa Dhasa - functions

## Import

from hora import const,utils

from hora.panchanga import panchanga

from hora.horoscope.chart import house

from hora.horoscope.dhasa import narayana

import swisseph as swe

import datetime

## sudasa\_dhasa (chart, sree\_lagna\_house, sree\_lagna\_longitude, dob)

calculate Sudasa Dhasa

@param chart: house\_to\_planet\_list

Example: ['','','','','2','7','1/5','0','3/4','L','','6/8'] 1st element is Aries and last is Pisces

@param sree\_lagna\_house:Raasi index where sree lagna is

@param sree\_lagna\_longitude: Longitude of Sree Lagna

Note: one can get sree lagna information from panchanga.sree\_lagna()

@param dob: Date of birth as a tuple e.g. (1999,12,31)

@return: 2D list of [dhasa\_lord,dhasa\_start,[Bhukthi\_lord1,bhukthi\_lord2,], dhasa\_duraation

Example: [ [7, '1993-6-1', '1996-6-1', [7, 8, 9, 10, 11, 0, 1, 2, 3, 4, 5, 6], 3], ...]

# Drig Dhasa - functions

## Import

from hora import const,utils

from hora.panchanga import panchanga

from hora.horoscope.chart import house

from hora.horoscope.dhasa import narayana

import swisseph as swe

import datetime

## drig\_dhasa(chart, dob)

computes drig dhasa from the chart

@param chart: chart list 1-D. Format ['1/2','3/L',...,'',5/6/7','9','0'] 12 houses with planets and Lagnam

@param dob: tuple of date of birth format: (year,month,day)

@return: list of drig dhasa from date of birth

Format: [ [dhasa\_lord, dhasa\_start\_date, dhasa\_end\_date, [bhukthi\_lord1, bhukthi\_lord2...], dhasa\_duration],...]

Example: [[2, '1912-1-1', '1916-1-1', [2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 0, 1], 4],

[5, '1916-1-1', '1927-1-1', [5, 4, 3, 2, 1, 0, 11, 10, 9, 8, 7, 6], 11], ...]]

# Nirayana Shoola Dhasa - functions

## Import

from hora import const, utils

from hora.horoscope.chart.house import \*

from hora.horoscope.dhasa import narayana

## nirayana\_shoola\_dhasa (chart, dob)

calculate Nirayana Shoola Dhasa

@param chart: house\_to\_planet\_list

Example: ['','','','','2','7','1/5','0','3/4','L','','6/8'] 1st element is Aries and last is Pisces

@param dob: Date of birth as a tuple e.g. (1999,12,31)

@return: 2D list of [dhasa\_lord,dhasa\_start,[Bhukthi\_lord1,bhukthi\_lord2,], dhasa\_duraation

Example: [ [7, '1993-6-1', '1996-6-1', [7, 8, 9, 10, 11, 0, 1, 2, 3, 4, 5, 6], 3], ...]

# Shoola Dhasa - functions

## Import

from hora import const, utils

from hora.horoscope.chart.house import \*

from hora.horoscope.dhasa import narayana

## shoola\_dhasa(chart, dob)

calculate Shoola Dhasa

@param chart: house\_to\_planet\_list

Example: ['','','','','2','7','1/5','0','3/4','L','','6/8'] 1st element is Aries and last is Pisces

@param dob: Date of birth as a tuple e.g. (1999,12,31)

@return: 2D list of [dhasa\_lord,dhasa\_start,[Bhukthi\_lord1,bhukthi\_lord2,], dhasa\_duraation

Example: [ [7, '1993-6-1', '1996-6-1', [7, 8, 9, 10, 11, 0, 1, 2, 3, 4, 5, 6], 3], ...]

# Kalachakra Dhasa Functions

## Imports

import numpy as np

from hora import const

from hora.panchanga import panchanga

from hora.horoscope.chart import house

## kalachakra\_dhasa(lunar\_longitude, dob)

Kalachara Dhasa calculation

@param lunar\_longitude: Longitude of moon at the time of date/time of birth as float

Note: one can get this from panchanga.lunar\_longitude()

@param dob: date of birth as tuple (year,month,day)

@return: list of [dhasa\_rasi,dhasa\_rasi\_start\_date, dhasa\_rasi\_end\_date,[abtadhasa\_rasis],dhasa\_rasi\_duration]

Example: [[7, '1946-12-2', '1955-12-2', [7, 8, 9, 10, 11, 0, 1, 2, 3, 4, 5, 6], 9], [8, '1955-12-2', '1964-12-2', [8, 9, 10, 11, 0, 1, 2, 3, 4, 5, 6, 7], 9], ...]

# Sudharsana Chakra Dhasa - functions

## Import

from hora.horoscope.chart import charts

from hora import const, utils

from hora.panchanga import panchanga

## sudharsana\_chakra\_dhasa\_for\_divisional\_chart (jd\_at\_dob, place, dob, years\_from\_dob=0, divisional\_chart\_factor=1)

calculate sudharsana chakra dhasa for divisional charts / annual charts

for just divisional charts - use divisional\_chart\_factor and set years\_from\_dob = 0

for annual charts use years\_from\_dob the non zero value

@param jd\_at\_dob: Julian day for birthdate and birth time

@param place: pancganga.Place Struct ('place\_name',latitude,longitude,timezone)

@param dob: Date of birth as a tuple e.g. (1999,12,31)

@param years\_from\_dob: years of from year of birth

@param divisional\_chart\_factor: integer of divisional chart 1=Rasi, 2=D2, 9=D9 etc

@return: [lagna\_periods,moon\_periods,sun\_periods]

Each dhasa period will have the following format:

[planet index,(dhasa\_start\_year, month, date,longitude),dhasa duration],...

[0, (1987, 10, 31, 15.388383474200964), 2.5], [1, (1987, 11, 3, 4.348383475095034), 2.5],....

# Mudda (Varsha Vimsottari) - functions

## Import

import datetime

from collections import OrderedDict as Dict

import swisseph as swe

from hora import const

from hora.panchanga import panchanga

from hora.horoscope.chart import charts

from hora.horoscope.dhasa import vimsottari

## Lambda functions

varsha\_vimsottari\_adhipati = lambda nak: const.varsha\_vimsottari\_adhipati\_list[nak % (len(const.varsha\_vimsottari\_adhipati\_list))]

## varsha\_vimsottari\_dhasa\_bhukthi(jd, place, years)

Calculates Varsha Vimshottari (also called Mudda dhasa) Dasha-bhukthi-antara-sukshma-prana

@param jd: Julian day for birthdate and birth time

@param place: pancganga.Place Struct ('place\_name',latitude,longitude,timezone)

@param years: # years of from year of birth

@return: 2D list of [ (dhasa\_lord,Bhukthi\_lord,bhukthi\_start date, bhukthi\_duraation),...

Example: [(7, 7, '1993-06-03', 8.22), (7, 4, '1993-06-11', 7.31), ...]

# Patyayini - functions

## Import

from hora import const, utils

from hora.panchanga import panchanga

from hora.horoscope.chart import charts

## patyayini\_dhasa (jd\_years, place, ayanamsa\_mode='Lahiri', divisional\_chart\_factor=1)

Compute Patyaayini Dhasa

Should be used for Tajaka Annual charts

@param jd\_years:Julian day number for Tajaka Annual date/time

@param place: panchanga.Place struct tuple of ('Place',latitude,longitude,time\_zone\_offset)

@param ayanamsa\_mode: Default = 'Lahiri'

@param divisional\_chart\_factor: Default = 1 (Raasi) - See const.division\_chart\_factors for other possible values

@return patyayini dhasa values as a list [planet, dhasa\_duration in days]

Example: [[5, (1993, 6, 26), 24.9], [3, (1993, 8, 13), 48.1], [1, (1993, 8, 14), 0.57],...]]