nse_workday

June 29, 2023

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[6]: from nse_workday import get_new_holidays, update_holiday, workday, update_holiday
      aget_holidays_list, get_workdays_list, get_month_weekdays, get_weekdays, u
       ⊶month_last_weekday, isHoliday
       1.
    get_new_holidays(mode='test')
    Retrieves list of latest holidays from use and save it if fetched list year > last available holidays
    year in library
    Args::
    mode = 'test' / 'normal' . Default 'test' (will not save data.).
[5]: get_new_holidays(mode='normal')
    No Dates to Exclude
    Exceptional Trading Dates (Saturday/Sunday):: ['12-11-2023']
    Holidays list :: ['26-01-2023', '07-03-2023', '30-03-2023', '04-04-2023',
    '07-04-2023', '14-04-2023', '01-05-2023', '29-06-2023', '15-08-2023',
    '19-09-2023', '02-10-2023', '24-10-2023', '14-11-2023', '27-11-2023',
    '25-12-2023']
    Data already exists
       2.
    update holiday(dates set = 'holidays')
    Modify / Add / Remove a date from holidays or exceptions list ( Exception :: Trading days in
    Saturday/ Sunday)
    Args::
    dates_set : 'holidays' / 'exceptions' . Default 'holidays'
    The date should be entered in dd-mm-yyyy format.
[2]: update_holiday()
    Select an option:
    1. Modify a date
    2. Add a date
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3. Remove a date

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Enter option number: 1
     Enter old Date to remove (dd-mm-yyyy): 28-06-2023
     Enter the new Date to add (dd-mm-yyyy): 29-06-2023
     Do you want to save modified date list? (Y/N): y
     Data saved successfully
        3.
     isHoliday(input_date)
     Check the given date is holiday or not . Return Boolean.
     Args::
     input_date : date in %d-%m-%Y/ datetime.date / datetime.datetime format
 [7]: isHoliday(input_date="29-06-2023")
 [7]: True
     All below functions returns datetime.datetime item / list.
        4.
     workday(input date, direction)
     Will return the nearest workday in the given direction if the input_date is holiday. If not, will
     return the same
     Args ::
     input_date : date in %d-%m-%Y / datetime.date / datetime.datetime format
     direction : 'next' / 'prev'
 [4]: workday(input_date="29-06-2023", direction='prev')
 [4]: datetime.datetime(2023, 6, 28, 0, 0)
        5.
     get_holidays_list(start_date, end_date)
     Returns all holidays as a list within the given range
     Args::
     start_date : date in %d-%m-%Y / datetime.date / datetime.datetime format
     end_date : date in %d-%m-%Y / datetime.date / datetime.datetime format
[10]: get_holidays_list(start_date="20-6-2023", end_date="30-6-2023")
[10]: [datetime.datetime(2023, 6, 24, 0, 0),
       datetime.datetime(2023, 6, 25, 0, 0),
       datetime.datetime(2023, 6, 29, 0, 0)]
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6.
     get workdays list(start date, end date)
     Returns all workdays as a list within the given range
     Args::
     start date : date in %d-%m-%Y / datetime.date / datetime.datetime format
     end date : date in %d-%m-%Y / datetime.date / datetime.datetime format
[11]: get workdays list(start date="20-6-2023", end date="30-6-2023")
[11]: [datetime.datetime(2023, 6, 20, 0, 0),
       datetime.datetime(2023, 6, 21, 0, 0),
       datetime.datetime(2023, 6, 22, 0, 0),
       datetime.datetime(2023, 6, 23, 0, 0),
       datetime.datetime(2023, 6, 26, 0, 0),
       datetime.datetime(2023, 6, 27, 0, 0),
       datetime.datetime(2023, 6, 28, 0, 0),
       datetime.datetime(2023, 6, 30, 0, 0)]
       7.
     get month weekdays(input date, required weekday, filtered=True)
     Return all occurences of the required weekday from the given date month
     Args::
     input_date : date in %d-%m-%Y / datetime.date / datetime.datetime format
     required weekday: Weekday name (eg. 'Sunday'/'sunday').
     filtered: bool. Default True (Will return the previous day if a required weekday is holiday
[12]: get_month_weekdays(input_date="21-6-2023", required_weekday='thursday')
[12]: [datetime.datetime(2023, 6, 1, 0, 0),
       datetime.datetime(2023, 6, 8, 0, 0),
       datetime.datetime(2023, 6, 15, 0, 0),
       datetime.datetime(2023, 6, 22, 0, 0),
       datetime.datetime(2023, 6, 28, 0, 0)]
       8.
     month_last_weekday(input_date, last_weekday, filtered=True)
     Return last occurrence of the required weekday from the given date month
     Args::
     input_date : date in %d-%m-%Y / datetime.date / datetime.datetime format
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last_weekday : Weekday name (eg. 'Sunday'/'sunday').
     filtered: bool. Default True (Will return the previous day if a last weekday is holiday.)
[14]: month_last_weekday(input_date="21-6-2023", last_weekday='thursday')
[14]: datetime.datetime(2023, 6, 28, 0, 0)
       9.
     get weekdays(start date, end date, required weekday, filtered=True)
     Return all occurences of the required weekday from the given range
     Args::
     start_date : date in %d-%m-%Y / datetime.date / datetime.datetime format
     end_date : date in %d-%m-%Y / datetime.date / datetime.datetime format
     required_weekday : Weekday name (eg. 'Sunday'/'sunday').
     filtered : bool . Default True ( Will return the previous day if a required weekday is holiday
[15]: get_weekdays(start_date="21-3-2023", end_date="30-6-2023",
       →required_weekday='friday')
[15]: [datetime.datetime(2023, 3, 24, 0, 0),
       datetime.datetime(2023, 3, 31, 0, 0),
       datetime.datetime(2023, 4, 6, 0, 0),
       datetime.datetime(2023, 4, 13, 0, 0),
       datetime.datetime(2023, 4, 21, 0, 0),
       datetime.datetime(2023, 4, 28, 0, 0),
       datetime.datetime(2023, 5, 5, 0, 0),
       datetime.datetime(2023, 5, 12, 0, 0),
       datetime.datetime(2023, 5, 19, 0, 0),
       datetime.datetime(2023, 5, 26, 0, 0),
       datetime.datetime(2023, 6, 2, 0, 0),
       datetime.datetime(2023, 6, 9, 0, 0),
       datetime.datetime(2023, 6, 16, 0, 0),
       datetime.datetime(2023, 6, 23, 0, 0),
       datetime.datetime(2023, 6, 30, 0, 0)]
```