

# Untitled

July 10, 2023

```
[3]: from symbolsearch import SearchScrip
import logging
```

```
[5]: logging.basicConfig(level=logging.DEBUG)
```

```
[6]: sc = SearchScrip()
```

Now its needed to initialize symbols of the required exchanges.

It will not not download the symbolmaster for a exchange within the same day unless it is specified by using `hard_refresh=True`

```
[8]: exch_list = ['NSE', 'NFO']
sc.initialize_symbols(exch_list=exch_list)
```

`get_expiry(exch, instrument, symbol, expiry)` By default, it returns current expiry of banknifty options

```
[9]: sc.get_expiry()
```

```
[9]: datetime.date(2023, 7, 13)
```

```
[10]: sc.get_expiry(exch='NFO', instrument='FUTIDX',
↪symbol='FINNIFTY', expiry='current')
```

```
[10]: datetime.date(2023, 7, 25)
```

```
search_scrip(exch, **kwargs)
```

The function will return in 3 different ways depending on the inputs

1. if `**kwargs` params are `symbol`, `instrument`, `optiontype`, `expiry`, `strikeprice` then it will return corresponding tradingsymbol and token
2. if `**kwargs` params are same as point 1 but lacks any of the input then it will return a dict of tradingsymbols and tokens
3. if `**kwargs` input is tradingsymbol then it will return the corresponding token

```
[11]: sc.search_scrip(exch='NFO', symbol='BANKNIFTY', instrument='OPTIDX',  
                    optiontype='CE', expiry="13-7-2023", strikeprice=44000)
```

```
[11]: array(['BANKNIFTY13JUL23C44000', 41702], dtype=object)
```

```
[12]: sc.search_scrip(exch='NFO', symbol='BANKNIFTY', instrument='OPTIDX',  
                    expiry="13-7-2023", strikeprice=44000)
```

```
[12]: {'BANKNIFTY13JUL23P44000': 41703, 'BANKNIFTY13JUL23C44000': 41702}
```

```
[13]: sc.search_scrip(exch='NFO', tradingsymbol='BANKNIFTY13JUL23C44000')
```

```
[13]: 41702
```

get\_tradingsymbol(exch, \*\*kwargs)

It will return tradingsymbol

\*\*kwargs params are symbol, instrument, optiontype, strikeprice, expiry for 'NFO', 'MCX' & 'CDS'

\*\*kwargs params are symbol, instrument for 'NSE'

```
[14]: sc.get_tradingsymbol(exch='NFO', symbol='BANKNIFTY', instrument='OPTIDX',  
                        optiontype='CE', expiry="13-7-2023", strikeprice=44000)
```

```
[14]: 'BANKNIFTY13JUL23C44000'
```

```
[15]: sc.get_tradingsymbol(exch='NSE', symbol='HDFC', instrument='EQ')
```

```
[15]: 'HDFC-EQ'
```

get\_lotsize(exch, \*\*kwargs)

Returns lotsize of the given symbols depending upon the inputs

1. \*\*kwargs -> tradingsymbol

2. \*\*kwargs -> symbol, expiry

3. \*\*kwargs -> symbol (lacks accuracy as it will return the lotsize regardless of expiry.)

```
[16]: sc.get_lotsize(exch='NFO', symbol='BANKNIFTY')
```

```
[16]: 25
```

```
[17]: sc.get_lotsize(exch='NFO', symbol='BANKNIFTY', expiry='27-7-2023')
```

```
[17]: 15
```