

# More about List

# List

- A list is a value that contains multiple values
- Values in a list are called item
- Comma-delimited
- you can access items in a list with its indexed integers
- You can get multiple items from a list by slice

# Methods and list Methods

Method is like a function but it is must be called on a object

- `index()`
- `append()`
- `insert()`
- `remove()`
- `sort()`

Write a program to find the no of electrons in an atom

**[https://github.com/ChemistryCourses/CH603/blob/master/programs/class3/  
no\\_of\\_electron.py](https://github.com/ChemistryCourses/CH603/blob/master/programs/class3/no_of_electron.py)**

# Groups

['RONNIE MONDAL', 'Chinmay Sanjay Laxmi Pradhan', 'Ravi Kumar']  
['Pratik Vasudeo Kinage', 'Varsha Jain', 'Prerak Viral Gandhi']  
['VALAY AGARAWAL', 'SUMUKH VAIDYA', 'Rohan Gupta']  
['Ria Miglani', 'ALOK KUMAR', 'Suryadip Bhattacharjee']  
['ABHYUDAYA SRIKANT ADULKAR', 'Rohit Auti', 'Devesh Singh']  
['Niket Kumar Singh', 'TIRTHICK MAJUMDER', 'Shruti Tejrao Sose']  
['Priyam Kumar De', 'Tamoghna Mukhopadhyay', 'Sneha']  
['Vinayak Sidana', 'Ramesh Prasanth Babu', 'Rashmi Arya']  
['Sakshi Gupta', 'YASH BHASKAR', 'YASH GUPTA']  
['Namitha Brijit Bejoy', 'Kshitijkumar Ashok Surjuse', 'SAWANT SHIVAM LAXMAN']  
['Suraj Sahoo', 'Rageshwari Ramniklal Marolikar']

# Hartree-Fock

## Resources :

1. David Sherils Lecture (<https://www.youtube.com/watch?v=6XFOF8-QkAM&feature=relmfu>, <http://www.youtube.com/watch?v=1jHkt1Qzv1A&feature=relmfu>)
2. Lecture Notes from last years CH560 course(<https://achintyachemist.wixsite.com/achintya/courses>)
3. CH560 Course

We are going to closely follow the Hartree-Fock programming tutorial developed by the group of **Prof. Daniel Crawford** at VIRGINIA TECH( <https://github.com/CrawfordGroup/ProgrammingProjects/tree/master/Project%2303>)