```
In [2]:
          ▶ s1='can can you canner can not can you buy'
 In [3]:
          1
    Out[3]: ['can', 'can', 'you', 'canner', 'can', 'not', 'can', 'you', 'buy']
 In [7]:
            for word in 1:
                print(word,":",1.count(word))
            can : 4
            can : 4
            you: 2
            canner: 1
            can : 4
            not: 1
            can : 4
            you: 2
            buy : 1
         word-frequency
In [10]:
          ▶ s1='can can you canner can not can you buy'
            list_words=s1.split()
            11=[]
            for word in list words:
                if word not in l1:
                    print(word, list_words.count(word))
                    11.append(word)
            #step1
                     can not in []
                                     true 5 ['can']
            #can
                     can not in ['can'] False xxxxxxx
            #can
                   you not in ['can'] true 2 ['can', 'you']
            #you
            can 4
            you 2
            canner 1
            not 1
            buy 1
```

Insert

```
\mathbf{H} | 11=[1,2,3,4,100]
In [11]:
             11.insert(3, 'a')
             11
             # 1 2 3 'a' 4 100
   Out[11]: [1, 2, 3, 'a', 4, 100]
          Append
          ▶ | l1=['hyd','Mumbal','Chennai','Bengaluru']
In [15]:
             #L2=['Mumbai','Chennai','Bengaluru']
             12=[]
             for i in l1:
                  if len(i)>5:
                      print(i)
                      12.append(i)
             12
             Mumbal
             Chennai
             Bengaluru
   Out[15]: ['Mumbal', 'Chennai', 'Bengaluru']
In [20]:
          #create a list of sqares of 1 to 10 numbers
             sqr=[]
             for i in range(1,11):
                  print(i*i)
                  sqr.append(i*i)
             sqr
             1
             4
             9
             16
             25
             36
             49
             64
             81
             100
   Out[20]: [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
          List - Comprahenshion
          pattern - i
```

```
In [ ]:
              sqr=[]
             for i in range(1,11):
                 print(i*i)
                 sqr.append(i*i)
             sar
In [ ]: ▶ | num=[<output><forloop with out:>]
In [21]:
          N num=[i*i for i in range(1,11)]
   Out[21]: [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
In [30]:
          # L1=['hyd','mumbai']
             # L2=[]
             # for i in l1:
                 l2.append(i.capitalize())
             11=['hyd','mumbai']
             12=[i.capitalize() for i in l1 ]
             12
   Out[30]: ['Hyd', 'Mumbai']
 In [ ]:
```

Pattern-2

## for if

```
In [ ]:
         Pattern − 3:
         for - if - else
In [ ]:
              [<if output><if condition> else <else output> <for loop>]
          #\ #l1=[<output><forloop with out:>]
In [31]:
             #L2=[<output><forloop><if codition>]
             1=[]
             for i in range(1,10):
                 if i%2==0:
                      1.append(f'even {i}')
                 else:
                      1.append(f'odd {i}')
             [<if output> if <if condition> else <else output> <for loop>]
   Out[31]: ['odd 1',
               'even 2',
               'odd 3',
               'even 4',
               'odd 5',
               'even 6',
               'odd 7',
               'even 8',
               'odd 9']
          M | [f'even {i}'if i%2==0 else f'odd {i}' for i in range(1,10) ]
In [33]:
   Out[33]: ['odd 1',
               'even 2',
               'odd 3',
               'even 4',
               'odd 5',
               'even 6',
               'odd 7',
               'even 8',
               'odd 9']
```

```
In []: N Strings
List
sat sunday = tuple

- how to read the tuple
- different ways to read tuple
- type len max min sum reversed sorted
- concatenation
- in
- index
- difference between in and index range using for loop
- mutaable immutable concept
- slice
- part 2
- methods
```

```
In [34]:  t1=(1,2,3) type(t1)
```

Out[34]: tuple

```
dir(t1)
In [35]:
    Out[35]: ['
                   _add___',
                   class__',
                   class_getitem__',
                   _contains___',
                   _delattr__
                   _dir___
                  _doc___',
_eq___',
                   format__',
                   _ge__',
                   _getattribute___',
                   _getitem___',
                   _getnewargs___',
                   _gt___',
                   _hash__
                   _init___',
                   _init_subclass___',
                   iter__',
                   le__',
                   len__',
                   _lt_
                   _{	t mul}
                   _ne_
                   _new___
                   reduce__',
                   reduce_ex__',
                   repr_
                   rmul___
                   _setattr_
                   _sizeof_
                  _str__',
                '__subclasshook__',
                'count',
                'index']
 In [ ]: ► lambda functions
              dictionary
              - file handeling session
              Thursdday 15/02/2024 python will complete
              1 week stats part 1
              1 week EDA - exploraoty data analysis
              write a normal code without syntax error === logic
```