Numpyco: Linear algebra library. Most of Pydata eco system depend's on numpy. numpy 1 fast. Vector Matrix matrix is Vector is 10 2d Array. Array (it can have I Yow of (column) They both can be called os Arrays [List] -> [(Array)] numpy will help in conversion of list of Array Example array ([1,2,3,4]) of I, for vector we just vector have I Square bracket

```
Example
                 array (I[ 1,2,3]
  s f
                          \begin{bmatrix} 1,2,3 \\ 2,1,3 \end{bmatrix}
\Rightarrow \text{ for matrix } \text{ we have } 2
   Mafrix
                                Square bracket's
   arrange function ()
               arrange (Start, Stop, step)
                                    upto jumping
                          index
                         Start
                                    Value
                                                    othes
   Zeros function()
     Array -> {Zeros ( ) mention the number of Zero's you want
                                       to Print
      Zeros ((a, b))

J W Columns } = 2D Array
rows
     One's function(): This is Similar to
                                          Zero but this
         Ones ( ) mention print's one the number only of ones
```

```
Yand int ()
        This return the random integer
                to high value.
John Low
         Yand inf ( )
The specify the max
Value until which this
                     Can print.
(g);f
         we
                 specify 10.
               It can print any thing upto 10.
      rand int (a, 6)

Highest value
               Lowest
                 value
   for some specific range:
           rand int ( start, stop, Required)
                           Here you specify the
 D type:
                    number of integer that
you want to pritet
We use
fuis to know
  the type
                            - Pillamgolla
AKhil
    of array
```