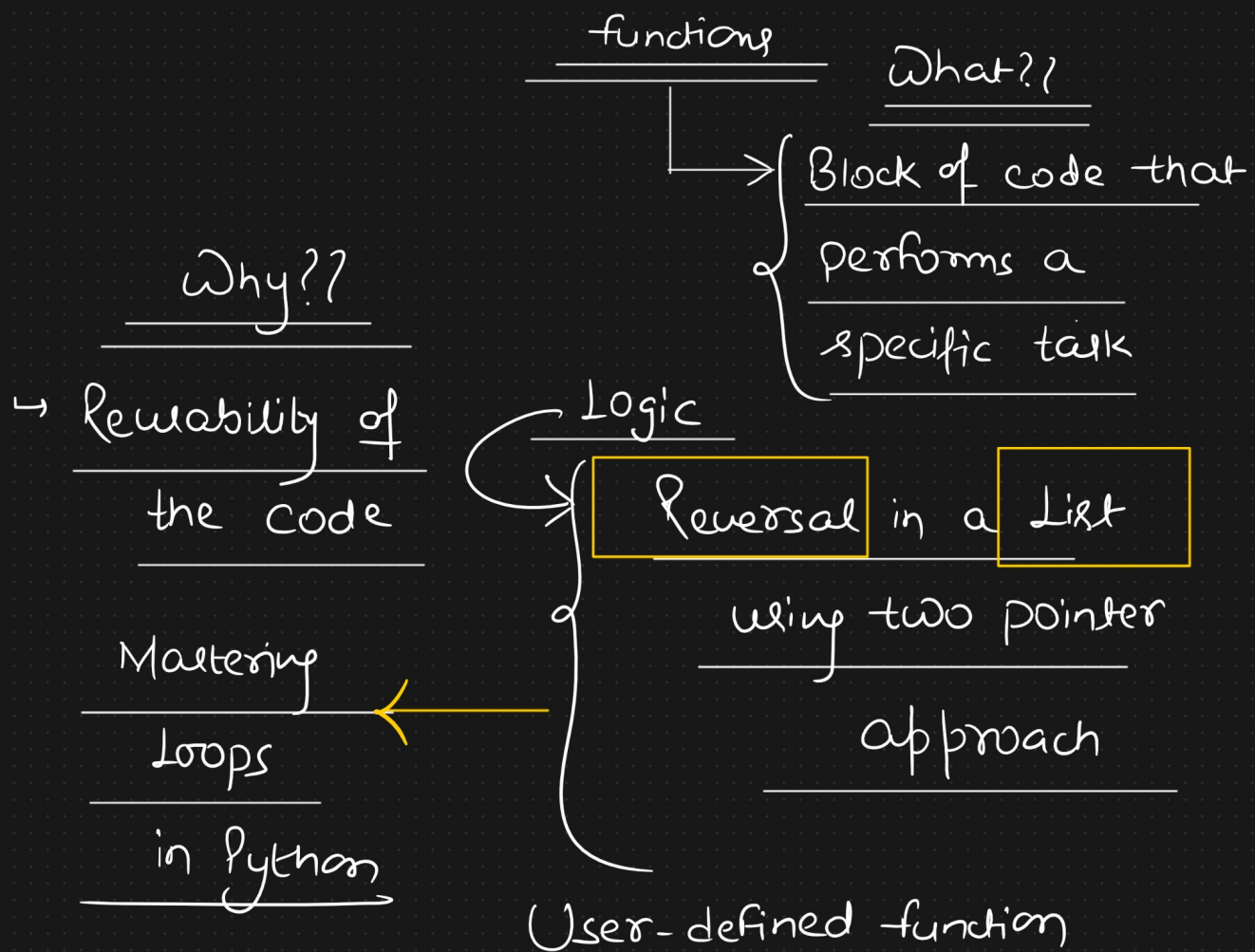


Mastering functions in Python



def Keyword in Python to define a function

function

```
def reverse(list1):
```

Logic of reversal

```
    _____  
    _____  
    _____  
    _____  
    return list1
```

Built-in function

$\left\{ \begin{array}{l} \text{type()} \rightarrow \text{datatype of variable} \\ \text{len()} \rightarrow \text{Size of list} \\ \text{print()} \rightarrow \text{print the data} \\ \text{\& many more} \end{array} \right.$

time complexity = $O(n)$ $\begin{matrix} \text{low} = 0 \\ \text{high} = 4 \end{matrix}$

list1

0	1	2	3	4
10	12	9	7	2
2	7		12	10

$\text{low} = 0$
 $\text{high} = 4$
 $n = 5$

Reversal

0	1	2	3	4
10	12	9	7	2

def reverse(list1):

while low < high:

① swap list1(low) with list1(high)

② low += 1

③ high -= 1

return list1