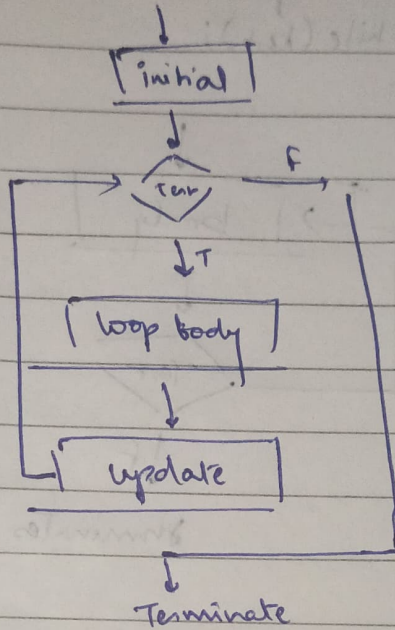# Loops:
For Loop:
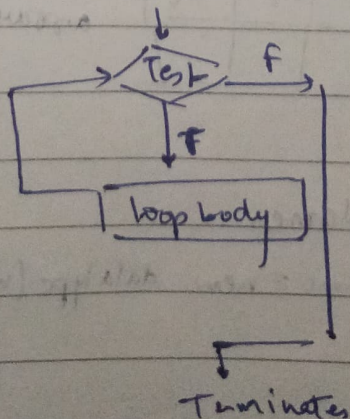
```
for ( initial ; test ; update) {
            //loop body
}
```



```
While loop:
    no definite number till when loop to be run.

            while ( test ) {
                // body
            }
```
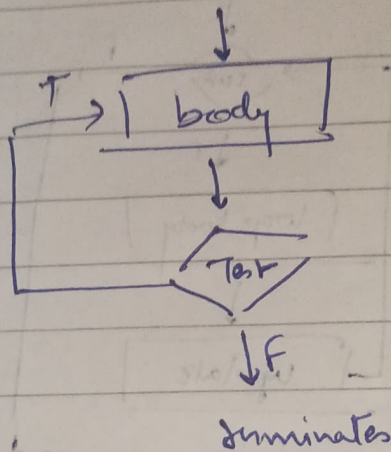
do while loop:

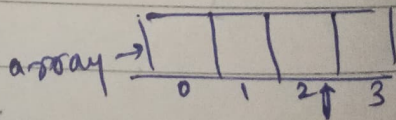atleast once loops executs

```
do {
   // body
} while (test);
```


terminates

ARRAYS:

similar types of data

memory

a1	a4	a3	
	a5	a2	a6

array →

0	1	2↑	3

dataType [] arrayName;

data Type[] arrayName = new dataType (number);

└→ can't increase size of array

arryName [num]
    index

Multidimensional Array [2D-Array]

int[][] a = new int [5][5]

int[][] a = {{1, 2, 3}, {3, 4, 5}, {6, 7, 8}}

Methods

Specific Task code

program divided in smaller chunks

returnType methodName() {
    // body
}

main *

modifier static returnType nameof Method (parameter1, para2...)
    // body
}

public
private
protected

returnType if not defined write void {not returning any value}