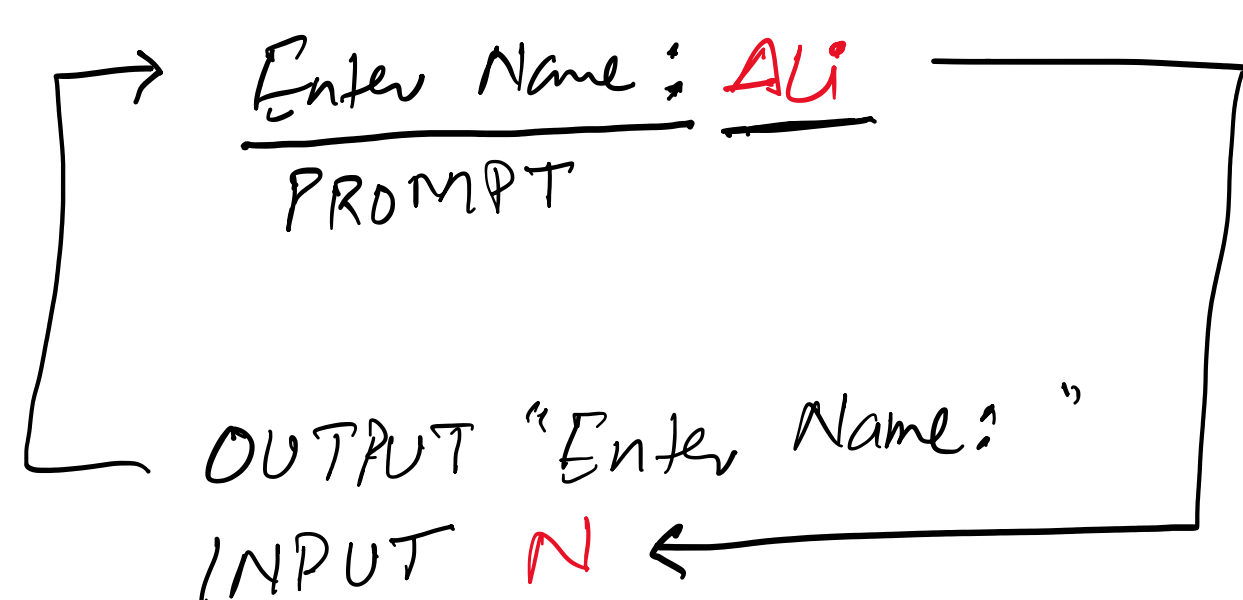


INPUT: Collection of data through keyboard in variables.

OUTPUT: Showing data over the screen, either from the variable or other data structure or constants (literals like strings). Those strings which makes user enter the data from keyboard are output too but called "PROMPT".

- * INPUT/READ
- * OUTPUT/PRINT
- * PROMPT
- * COUNTING
- * TOTALING
- * SUM/ASSIGNMENT
- COUNT BASED LOOPS
- EXTREME VALUES.



INPUT WITH PROMPT:

- ① OUTPUT "Enter name: "
INPUT N
- ② INPUT "Enter name: ", N

COUNTING:

$a \leftarrow a + 1$ $x = x + 1$
 $a = a + 1$ $x \leftarrow x + 1$

Arrows indicate the variable being incremented is the same on both sides of the assignment operator.

When variables on the right and left of the assignment operator ($=, \leftarrow$) are same and there is $+1$ operation; it is said to be "Counting".

$a \leftarrow a + 2$ This is not counting as it is not $+1$.

Totalling:

$a \leftarrow a + b$
 $x \leftarrow x + y$

Arrows indicate the variable being incremented is the same on both sides of the assignment operator.

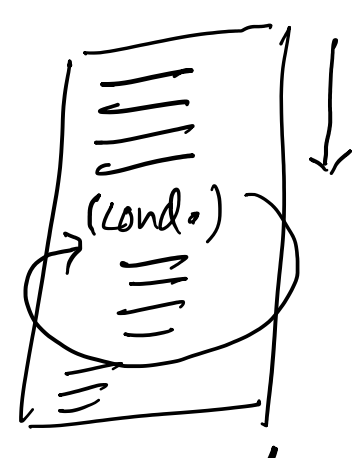
When in an expression variables on the right and left of assignment operator ($\leftarrow, =$) are same and are being added to another variable; it is said to be "Totalling".

Sum/Assignment:

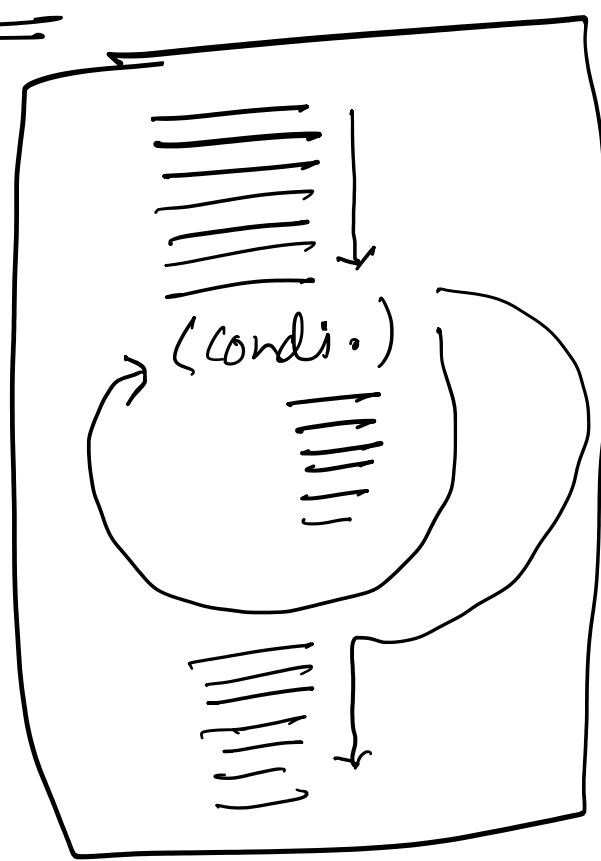
When different variables are added and are assigned to a third variable; it is said to be Sum or Simply assignment.

$B = A + A$, $B = B + 1$, $C \leftarrow A + 9$,
 $x \leftarrow a + 1$

COUNT BASED LOOPS: "Iteration"



Loop/Iteration.



Count Based
- FOR...NEXT

Condition Based
- WHILE...ENDWHILE
- REPEAT...UNTIL

COUNT BASED LOOPS

OUTPUT "Zafar"
 OUTPUT "Zafar"
 OUTPUT "Zafar"
 {

For $n \leftarrow 1$ to 50
 OUTPUT "Zafar"
 Next

1
 2
 3
 4
 5
 ...
 500