



200ps: for: already know the count (how many times want to execute the strits) While: - on the basis of cond-true, 1<100 - 9,79

-> 432 56 -> Loop -> >0 Soreach: any condition for Assays. at least one, without checking Syrs (1); W Cond Check

For: Syntax inta; intb22; Keyword for (a = 1; Stor (intilisation; condition; inclded 2b=1; int c=1; int a=1; or inta.; For (int(i=1) i=5; i++)

3

```
//case1: Declare and init. var inside the for loop block
 for(int i=1;i<10;i++) {
                     - 11 throws an euror
   // System.out.println(i);
   //Case2:
   int a=1;
   for(a=1;a<=10;a++) {
                         - can access a outside the Loop
   System.out.println(a);
   //case 3:
   int c;
   for(c=1;c<=10;c++) {
                         - Canarcers outside the Loop.
   System.out.println(c);
```

$$i<=5$$
 -5 $1,2,3,4,5$

Step1 - G=1 for(int i=1;i<=70;i++) {

System.out.println("Hello..."); i=2 j=1Stepan ck condition 1<=70 → Yes truc Step3- print the start. 1-2-3-4-12-3-4-22-3 2<=70 - Helb 1- Hello

Loop print() -> * * * * -, print() * prutter

$$-\frac{2}{2} \times 1 = 2$$
 $\frac{1}{2} \times 10 = 20$

20 times

Stp1->
$$i=1$$
 $2 \rightarrow 1 < = 20 \rightarrow \text{tene}$
 $3 \rightarrow if(1\%2 = = 0)$

false

 x
 $4 \rightarrow i + i \rightarrow 2$
 $2 \rightarrow 2 < = 20 - \text{tene}$
 $if(2\cdot 1\cdot 2 = = 0)$
 $im x = x$
 $x = x$

#A B C D \rightarrow print

2. Sum of numbers \rightarrow 1 \rightarrow L0 $1+2+3+4+\dots$ 10 \rightarrow

Francis -> -