For loop:

* For loop is Entry controlled loop.

Syntax:

```
for( expression 1; expression 2; expression 3)
{
    // loop body
       with multiple statements
}
```

```
for( initialization; condition; update/modify)
{
    // multiple statements.
}
```

* If single statement -then there is no need of curly braces.

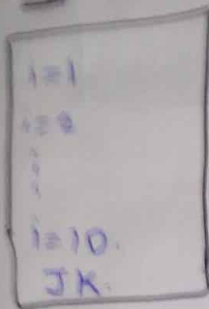## Program:
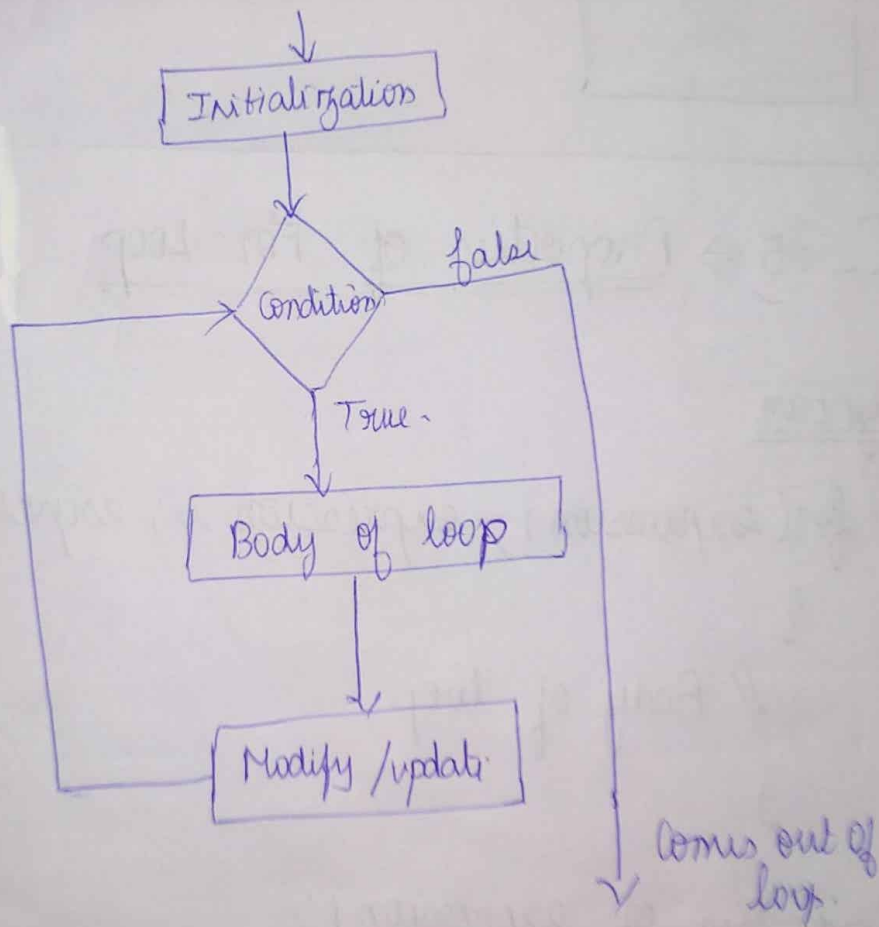
* To point a statement 10 times using for loop.

Pgm ①

```
for (i=1; i<=10; i++)
{
    printf(" i = %d", i);
}
printf("JK");
```

or

```
i=1
i=2
:
:
i=10.
JK.
```

Memory

Flow chart :-

* Initialization is done only once (ie) i=1.

* Initialization start from any number (ie)
    i=2 (or) i=0 (or) i=5

Pgm :

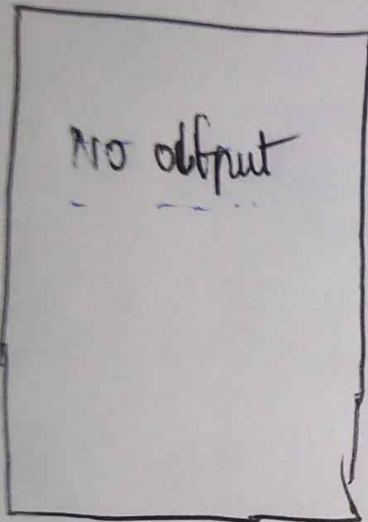```
for(i=10; i<10; i++)
{
    print ("%d", i);
}
```

o/p :

```
No output
```

Memory

i
10

$10 < 10$

False
↓
So loop
terminated.