

C-37 \Rightarrow while loop in c (Part 1)

* while loop and for loop is same;
but syntax is different.

* Both while and for are entry controlled loop.

while loop syntax:

```
Initialization;
while (condition)
{
    // Body of loop
}
```

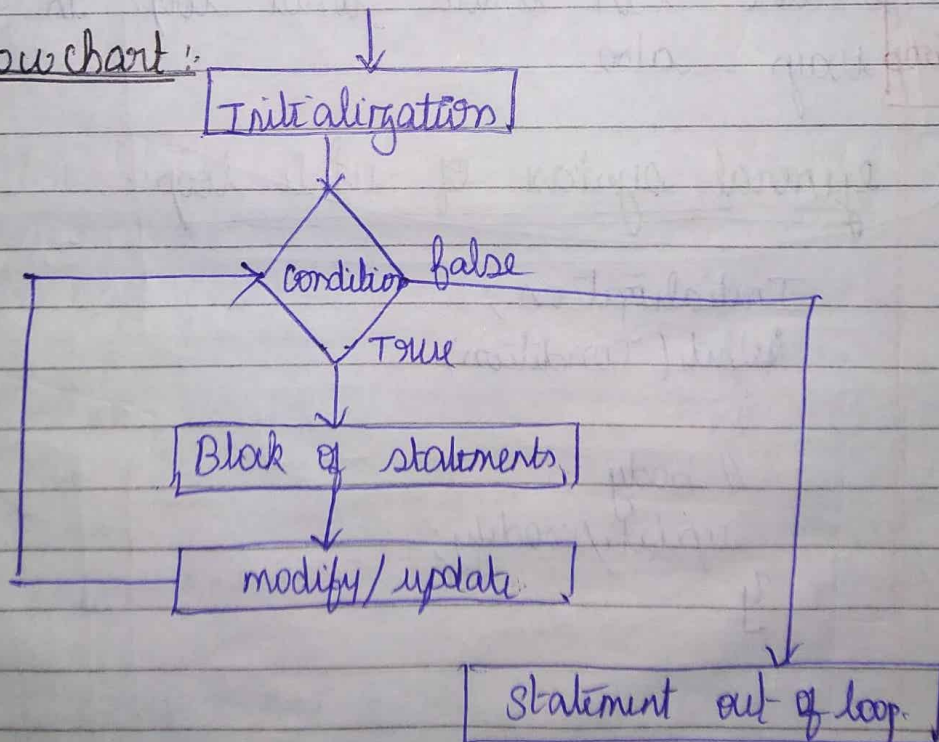
Initialization:

```
while (condition)
{
    statement 1;
    ;
    statement n;
    ;
    modify / update;
}
```

* Here also it requires
and update expression.

Initialization, condition

Flowchart:



Program 1

* Print natural numbers from 1 to 10.

void main()

{

int i=1;

while (i <= 20)

{ printf("Natural
no from 1-20:");

printf("%d\n", i);

i++;

}

getch();

}

output:-

Natural no from
1-20:

1

2

3

4

5

⋮

⋮

⋮

⋮

20

CODE 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /* 1 - while loop - To print natural numbers */
4  int main()
5  {
6      int i=1;
7      printf("Natural numbers from 1-20:\n");
8      while(i<=20)
9      {
10         printf("%d\n",i);
11         i++;
12     }
13     getch();
14 }
15
```

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Natural numbers from 1-20:

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

