

C-39 \Rightarrow Do while loop in C

do while

* do while loop is exit Controlled loop.

* While we exit from loop, the condition is checked.

syntax:

```
do  
{
```

```
    statements;
```

```
} while (condition);
```

Initialization

```
do
```

```
{
```

```
    statement 1;
```

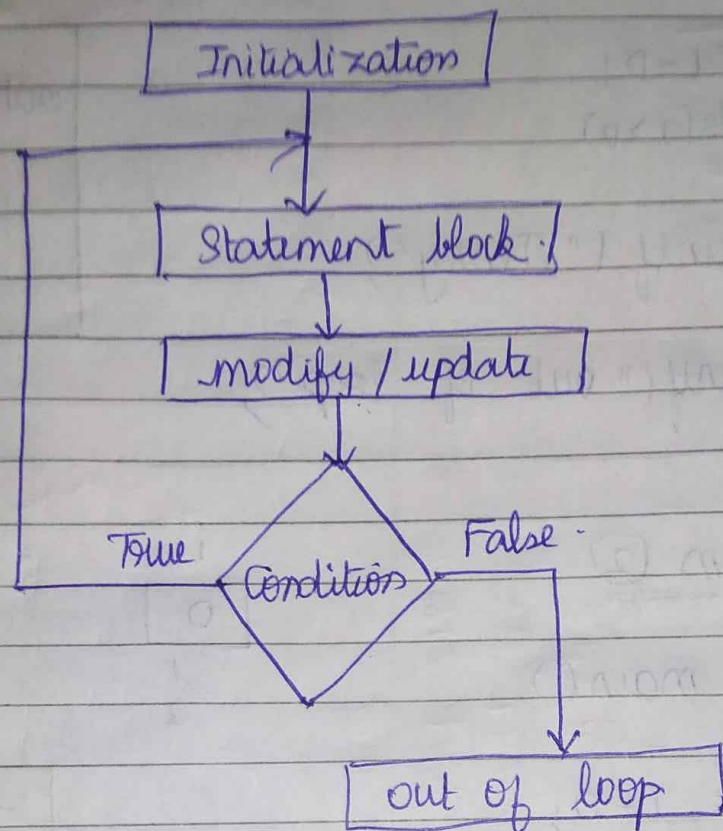
```
    ...  
    ...
```

```
    statement n;
```

```
    modify / update;
```

```
} while (condition);
```

Flow chart:



Hint:

* In do while loop; the loop body is executed atleast once independent of the condition either it is true or false; since condition is placed out of the loop.

Program (do while)

```
① int i=0;  
do  
{
```

```
    printf("Jerry");  
} while(i>0);  
printf("out of loop");
```

O/P

```
Jerry  
out of loop
```


Program: (while)

```
int i=0;  
while(i>0)  
{  
    printf("Jenny");  
}  
printf("out of loop");
```

O/P

out of loop

Program (2)

```
void main()  
{
```

```
    int i=0;
```

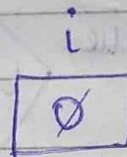
```
    do
```

```
    {
```

```
        printf("Jenny");  
        i++;
```

```
    } while(i>0);
```

```
    printf("out of loop\n");  
}
```



1

2

...

32767

-32768

-32768 > 0

loop terminates

O/P

Jenny

Jenny

32768
1 > 0
loop terminates

out of loop

CODE 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /* 1 - do while loop */
4  int main()
5  {
6      int i=0;
7      do
8      {
9          printf("Jenny\n");
10         }while(i>0);
11     printf("Out of loop..\n");
12     getch();
13 }
14
```

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Jenny
Out of loop..

CODE 2:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /* 2 - do while loop */
4  int main()
5  {
6      int i=0;
7      do
8      {
9          printf("Jenny\n");
10         i++;
11     }while(i>0);
12     printf("Out of loop..\n");
13     printf("i=%d",i);
14     getch();
15 }
16 /* loop is executed until value of i comes to 32767, -32768 >0 is false and
17    loop terminates and comes out of loop, now i value is -32768 */
18
```

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Jenny
Jenny
Jenny
Jenny
Jenny
Jenny
Jenny