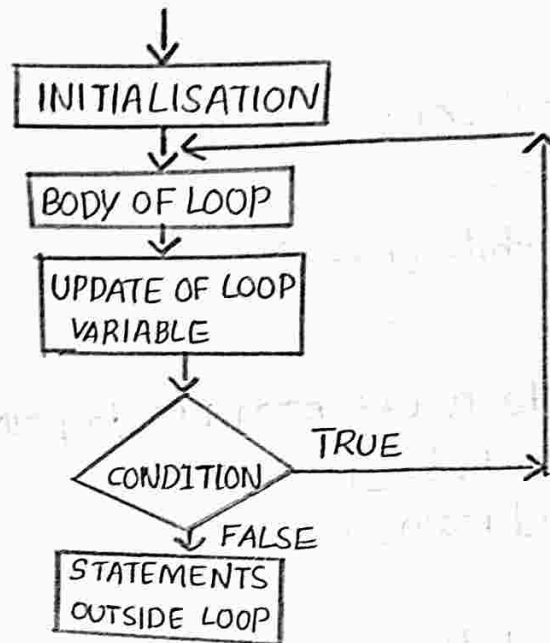


### 3. do...while loop

- \* Exit controlled loop
- \* Condition is checked at the end of the loop.
- \* First execution of loop body takes place without checking any condition, to have second execution of loop body the condition should return true value. For a false value the loop terminates.

Syntax

```
do  
{  
  loop body ;  
} while (test-exp);
```



Q. Write a C++ program to print values from 1 to 10.

Ans)

```
#include <iostream.h>  
void main()  
{  
  int i;  
  i = 1; //initialisation statement  
  do  
  {  
    cout << i;  
    i++; // updation statement  
  } while (i <= 10); // test expression  
}
```

Q. Write a C++ program to print values from 10 to 1.

Ans) `#include <iostream.h>`  
`void main()`  
`{`  
`int i;`  
`i=10;`  
`do`  
`{`  
`cout<<i;`  
`i--;`  
`} while (i >= 1)`  
`}`

Q. write a c++ program to print n number of values.

Ans) `#include <iostream.h>`  
`void main()`  
`{`  
`int i, n;`  
`i=1;`  
`cout<<"enter the value for n";`  
`cin>>n;`  
`do`  
`{`  
`cout<<i;`  
`i++;`  
`} while (i <= n)`  
`}`

Q. write a c++ program to print sum of first 10 natural numbers.

Ans) `#include <iostream.h>`  
`void main()`  
`{`  
`int i, sum;`

```
i = 1;
do
{
sum = sum + i;
i++;
} while (i <= 10);
cout << sum;
}
```

Q. Write a C++ program to print the sum of n natural numbers.

Ans) 

```
#include <iostream.h>
void main ()
{
int i, n, sum;
i = 1;
cout << "enter the value for n";
cin >> n;
do
{
sum = sum + i;
} while (i <= n);
cout << sum;
}
```

Q. Write a C++ program to print the even numbers upto 10.

Ans) 

```
#include <iostream.h>
void main ()
{
int i;
i = 2;
do
{
cout << i;
i += 2;
} while (i <= 10)
}
```

Q. Write a C++ program to find the sum of first 10 even numbers.

Ans)

```
#include <iostream.h>
void main( )
{
    int i, sum;
    i = 2;
    do
    {
        sum = sum + i;
        i = i + 2;
    } while (i <= 10)
}
```

Q. Write a C++ program to find factorial of a number.

Ans)

```
#include <iostream.h>
void main( )
{
    int n, i, f = 1;
    i = 1;
    cout << "enter the value for n";
    cin >> n;
    do
    {
        f = f * i;
        i++;
    } while (i <= n);
    cout << f;
}
```

Q. Write a C++ program to find the area of a rectangle.

```
Ans) #include <iostream.h>
void main()
{
int l, b, a;
char ch;
do
{
cout << "enter l and b";
cin >> l >> b;
a = l * b;
cout << a;
```

```
cout << "do u want to continue (y/n)";
cin >> ch;
}while (ch == 'y' || ch == 'Y');
}
```