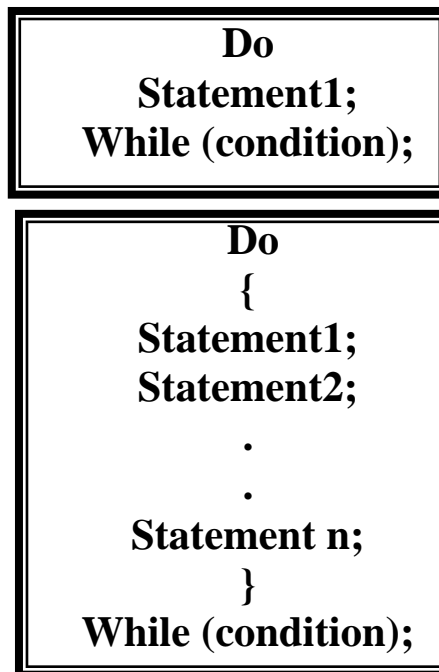


2- Do / While Statement:

General Form of Do / While statement:



Example 1: `i = 0;`
 `do`
 `{`
 `cout << i;`
 `i ++;`
 `}`
 `while (i < 10)`

Output:

0 1 2 3 4 5 6 7 8 9 i=10

Example 2: `i = 0;`
 `do`
 `{`
 `cout << i;`
 `i += 2;`
 `}`
 `while (i < 10)`

Output: *even numbers only*

0 2 4 6 8 i=10

Example 6:

Write C++ program to valid input checking, that accept the numbers between 50 ... 70 only:

```
#include<iostream.h>
Void main( )
{
    int accept = 1;
    int x, low = 50, high = 70;
    do
    {
        cout << "enter number: "; cin >> x;
        if ( x >= low && x <= high ) accept =1;
        else
            accept = 0;
    }
    while ( ! accept );
}
```

Example 7:

Write C++ program to find the summation of student's marks, and it's average, assume the student have 8 marks:

```
#include<iostream.h>
void main( )
{
    int mark, i, sum = 0;
    float av = 0;
    i = 1;
    do
    {
        cout << "enter mark: ";
        cin >> mark;
        sum = sum + mark;
        i++;
    }
    while ( i <= 8 )
    cout << "sum is: " << sum << endl;
    av = sum / 8;
    cout << "average is: " << av;
}
```

Example 8:

Write C++ program to find the factorial of n:

$$n! = n * n-1 * n-2 * n-3 * \dots * 2 * 1$$

```
#include<iostream.h>
void main()
{
    int n, f = 1;
    cout << "enter positive number: ";
    cin >> n;
    do
    {
        f = f * n;
        n --;
    }
    while ( n > 1 );
    cout << "factorial is: " << f;
}
```

Example 8:

Write C++ program to print a certain number of times the word.

```
#include<iostream.h>
void main()
{
    int counter;
    cout<<"How many hellos?";
    cin>>counter;
    do
    {
        cout<<" Hello\n";
        counter - - ;
    }
    while(counter>0);
    cout<<"Counter is:"<<counter<<endl;
}
```