



```

int i=1;
int sum=0;
while(i<=n){
    sum=sum+i;
    i++;
}

int i=1;
int sum=0; 1
while(1<=5){
    sum=sum+i; //0+1=1
    i++; 2
}

int i=2;
int sum=0; 1 3
while(2<=5){
    sum=sum+i; //1+2=3
    i++; 3
}

int i=3;
int sum=0; 1 3 6
while(3<=5){
    sum=sum+i; //3+3=6
    i++; 4
}

int i=4;
int sum=0; 1 3 6 10
while(4<=5){
    sum=sum+i; //6+4=10
    i++; 5
}

int i=5;
int sum=0; 1 3 6 10 15
while(5<=5){
    sum=sum+i; //10+5=15
    i++; 6
}

int i=6;
int sum=0; 1 3 6 10 15
while(6<=5){
}
    
```

sum=0 int i=1 n=10

1 2

3 3

sum=0+1=1

sum=1+2=3

3+3=6

6+4=10

10+5=15

1 + 2 + 3 + 4 + 5

sum=0

res=1	i=1	res= res*i;
1	1	1*1
2	2	1*2
6	3	2*3
24	4	6*4
120	5	24*5
6		

syntax :

```

do{
    //logic
}while(condition);
    
```

step 1 do block

step 2 inc/dec

Step 3 condition check

✓ 1 5 5

0

✓ 5 5 1

0

4 = 1, 2, 4 ✓

6 = 1, 2, 3, 6 ✓

7 = 1, 7 ✓

1 2 3 4 5

without condition check

5

2 3 4 5

7 1 7

8 1, 2, 4, 8

13 1 13

100 2 99

10 = 1 1, 10

2-9 ✓

7 = 1 2, 7 ✓

8 = 1 2, 8 ✓

1 2-9

7 1, 2, 3, 4, 5, 6, 7

2-50 = 2, 4, 5, 10

36 2, 3, 4, 6

18

6