



DO-WHILE LOOP

ITERATION STATEMENT

prepared by:

Gyro A. Madrona
Electronics Engineer

TOPIC OUTLINE

do-while Loop



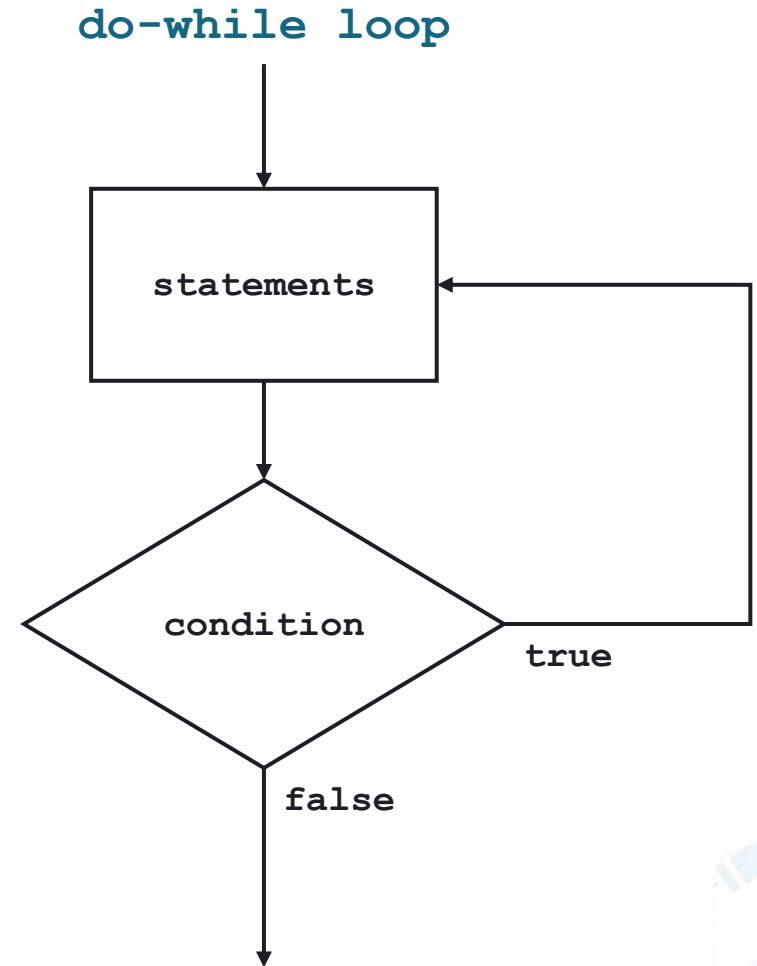
DO-WHILE LOOP



DO-WHILE LOOP

A do-while loop is a control flow statement that allows you to repeatedly execute a block of code as long as a specified condition is true.

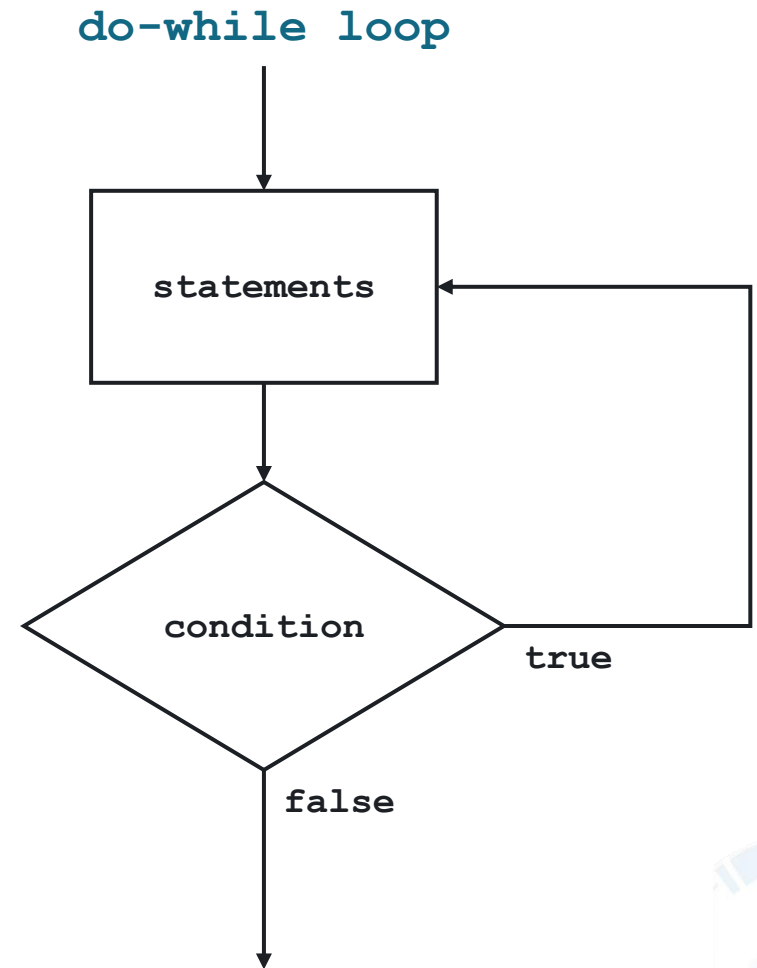
The key characteristic of a **do-while** loop is that it guarantees the loop body will be executed at least once, even if the condition is **false** from the beginning.



DO-WHILE LOOP

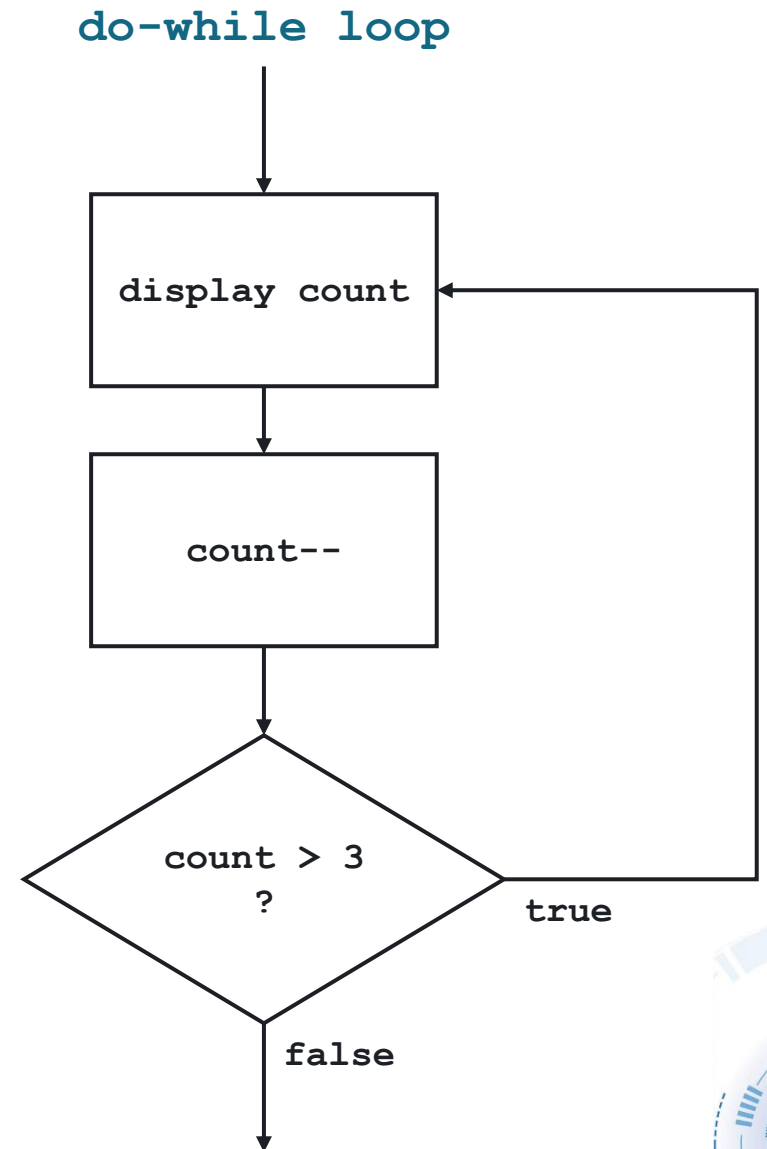
Syntax of the do-while loop statement:

```
do{  
    // repeat code while the  
    condition is true  
}while(condition);
```



EXERCISE

```
int count = 2;  
  
do{  
    cout << count;  
    count--;  
}while(count > 3 );
```



EXERCISE

Compare the output of the **do-while** loop vs **while** loop code snippet:

```
int count = 2;

do{
    cout << count;

    count--;
}while(count > 3 );
```

output:

```
int count = 2;

while(count > 3 ){

    cout << count;

    count--;
}
```

output:



EXERCISE

Determine the output of this code snippet:

```
int a = 1;

do{

    cout << a;

}while(a <= 5);
```

output:

Determine the output of this code snippet:

```
int y = 5;

do{

    cout << y << " ";

    y--;

}while(y > 0);
```

output:



EXERCISE

Determine the output of this code snippet:

```
int z = 10;

do{

    cout << z << " ";

    z = z - 2;

}while(z >= 0);
```

output:

Determine the output of this code snippet:

```
int z = 10;

do{

    cout << z << " ";

    z -= 2;

}while(z >= 0);
```

output:



EXERCISE

Determine the output of this code snippet:

```
int b = 0;

do{

    cout << b << "\n";

    b = b + 2;

}while(b <= 10);
```

output:

Determine the output of this code snippet:

```
int b = 0;

do{

    cout << b << "\n";

    b += 2;

}while(b <= 10);
```

output:



EXERCISE

Determine the output of this code snippet:

```
int a = 1;

do{

    if(a % 2 == 0){

        cout << a <<"\t";

    }

    a++;

}while(a <= 10);
```

output:

Determine the output of this code snippet:

```
int a = 1;

do{

    if(a % 2 == 0){

        cout << a <<"\r";

    }

    a++;

}while(a <= 10);
```

output:



LABORATORY

