

COMPUTER PROGRAMMING

DECISION INSTRUCTION - 2

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If Blocks

- If Block
- Nested If Blocks
- Elself Clauses

If Block

The following code will take a course of action based on whether a condition is true.

If condition Then

action 1

Else

action 2

Will be executed if condition is true

Will be executed if condition is false

End If



Another Type of If Block

If condition Then action 1

End If

Statement 2

Statement 3

Regardless of whether
the condition in the
If statement is true or
false, these statements
will be executed

Pseudocode and Flowchart for an If Block

Is the No Yes condition true? If condition is true Then Execute action 1 Execute Execute Else action 1 action 2 Execute action 2 End If

Nested If Blocks

 When one If block is contained inside another If block, the structure is referred to as nested If blocks.

It is usual use if the conditions are more than2

Elself Clause

Use if many conditions are present in decision making

```
If condition 1 Then
  action 1
ElseIf condition 2 Then
  action 2
ElseIf condition 3 Then
  action 3
Else
  action 4
End If
```

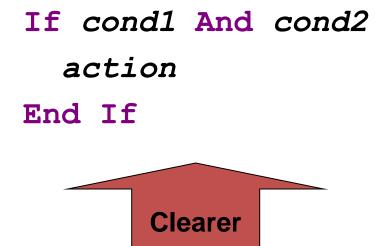
Simplified Nested If Statement

> Care should be taken to make If blocks easy to understand.

If cond1 Then
Then
If cond2 Then
action
End If
End If

Can be

confusing





Comment

 Some programs call for selecting among many possibilities. Although such tasks can be accomplished with complicated nested If blocks, the Select Case block (discussed in next Section) is often a better alternative.