

# Fortran-Programming

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```
bookdown::render_book("index.Rmd", "bookdown::gitbook")
```

*# The following section of code was entered using git to make the repository to display the output.*

```
touch .nojekyll
git add .nojekyll
git commit -m "commit to jekyll"
```

## 1 Introduction

Welcome to I don't know Fortran Series. This notebook is generated by my daily use in Fortran for past several years. Sometimes we are stuck in simple things in Fortran. This book gives a guide on using basic things / functions in Fortran.

Disclaimer: Most of the syntax described here works in intel fortran. I haven't tested on other versions of Fortran.

## 2 Structures in fortran

### 2.1 Logical operators

There are 5 logical operators in Fortran. They are:

1. .NOT.
2. .OR.
3. .AND.
4. .EQV.
5. .NEQV.

.NOT. is the highest .OR. and .AND., .EQV. and .NEQV. are the lowest.

### 2.2 If structure

```
IF (logical-expression-1) THEN
statement sequence 1
ELSE IF (logical-expression-2) THEN
statement sequence 2
```

```
ELSE IF (logical-expression-3) THEN
statement sequence statement sequence 3
ELSE IF (.....) THEN
.....
ELSE
10 statement sequence ELSE END IF
```

## 2.3 Select Case

*#[Select Case](<https://snag.gy/03XiJy.jpg>)*