Data Validation & Verification

≡ Chapter No.	18
⊙ Status	Completed

▼ Data validation is a process to ensure that the data provided as inputs to a program conforms with specific requirements to prevent technical errors

- More often than not, a programmer does not have any control over the inputs supplied to a program as these inputs can come from many sources

- Data validation is used to ensure that the data entered does not cause errors in the program

▼ 5 Data Validation Techniques

- ▼ Range Check

  - Range check is a process that limits an input to a particular range of values

- ▼ Format Check

  - Format check is a process that ensures that an input matches a required data type

- ▼ Length Check

  - Length check is a process that limits an input to a certain length or range of lengths

- ▼ Presence Check

  - Presence check is a process that ensures that a required input is supplied and not left empty

- ▼ Check Digit

  - A check digit is a redundant character calculated from the digits of an identification number that is used as form of redundancy check and as a form of error detection on identification numbers

- It consists of one or more digits computed by an algorithm from the other digits or letters in the data
- If there is an error in the digits or letters in the data, the check digit will be incorrect and inconsistent with its specification

▼ Data verification is a process in which data is checked for accuracy and consistency after data migration

- Data verification is used to ensure that the data entered is what the user intended to enter

▼ 2 Data Verification Techniques

▼ Double Entry

- Double entry is a process that asks a user to enter the required data twice

▼ Proofreading Data

- Proofreading data is a process that checks the entered data against the existing database