visual programming

Branching

Simulation

Bachelor of Information Systems
Institut Teknologi Del

Learning Objective(s)

This material should address the following question(s).

- How to use branching?

Discussion Point

Branching:
A Simulation.

Problem

- A book store is currently making a clearance sale.
- The discount is segmented as:
  - **50%** if the transaction ≥ **$200**.
  - **20%** if the transaction ≥ **$100**.
- Both of the above schemas requires **at least 2 books** in the transaction.

Problem

- The user will enter **two values**:
  - The transaction value; and
  - The number of books involved in the transaction.
- The solution will then decide if the discount is applicable or otherwise.
- Finally, the decision is displayed.

Problem

- An example:
  - The user enters `150.0` for the transaction value and `3` for the number of involved books.
  - The solution should state that the **20%** discount is applicable.

There are 3 discount schemas:

1. **0%** when it is less than **$100**.
2. **20%** when it reaches **$100**.
3. **50%** when it reaches **$200**.

Both of the schemas require the involvement of at least 2 books in the transaction.

Branching is used to form all the alternatives.

– E O F –

Course Lecturer

Mario E. S. Simaremare
Institut Teknologi Del

@simaremare
@dasar-pemrograman

Supported by

Kementerian Pendidikan, Kebudayaan,
Riset, dan Teknologi RI

Inovasi Modul Digital 2022