



Validation



Bachelor of Information Systems Institut Teknologi Del



Validation

Learning Objective(s)

This material should address the following question(s).

- What is validation?
- How to do validation?

Discussion Point

Validation:

The Core Concepts.

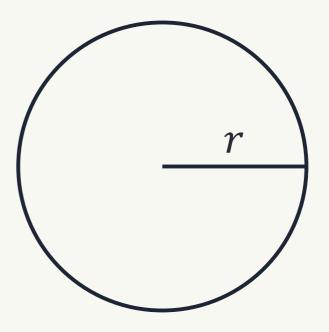


Problem

• To calculate the circumference of a circle, we use formula:

$$C = 2\pi r$$

- π is a constant, 3.14
- r is the circle radius.
- *C* is the circumference.

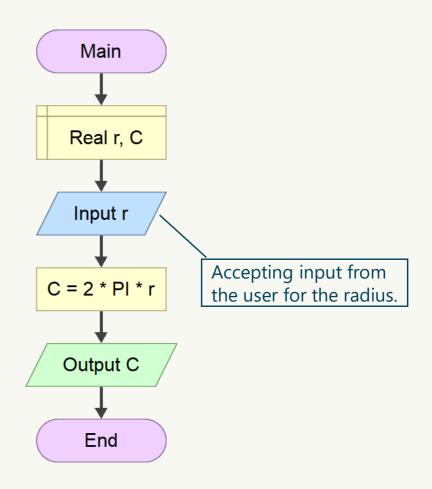




Problem

• The solution asks an input from the user for the radius.

$$C = 2\pi r$$

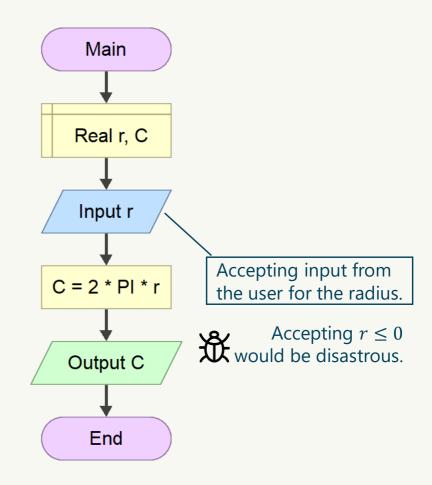




Problem

 The solution asks an input from the user for the radius.

- What if, the user enters $r \leq 0$.
 - 0, -5, -10?





User input **cannot** be trusted. How to prevent such things?

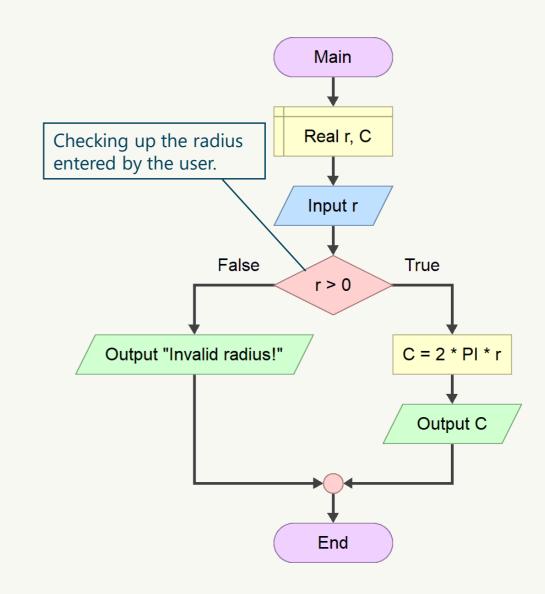
Definition



Validation is a mechanism to check the validity of values. When the checking fails, the intended process should be halted and not proceed.

Validation

- To validate input, it is very common to use branching.
- In sophisticated languages, Exception is employed.



Final **Thoughts.**

Conclusion



- 1. Do not trust values entered by the user.
 - They might be dangerous to the solution.
- 2. Validating user input is a way to prevent invalid values.
 - Branching is the most basic way to validate input.

References

Wassberg, J. (2020). Computer Programming for Absolute Beginners. Packt.





– E O F –



Course Lecturer

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(D) @dasar-pemrograman



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