



# Constant



Bachelor of Information Systems Institut Teknologi Del



#### **Constant**

# **Learning Objective(s)**

This material should address the following question(s).

- What is a constant?
- How it is different to variable?

# **Discussion Point**

**Constant**:

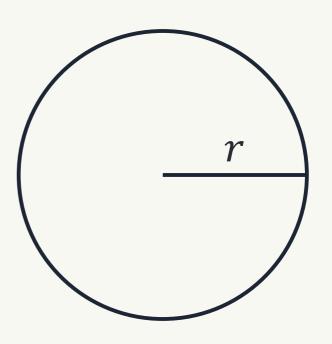
The Core Concepts.



## **Problem**

- In the circle area calculation, we have three values:
  - $\pi$  is a constant, whereas
  - r and A are variable values, their values may change.

$$A = \pi r^2$$





What is a **constant**?

#### **Definition**

A **constant** is a labeled space, similar to variable, but <u>non-modifiable</u>. It is set once and persists forever. Commonly used as default or reference value.

#### Constant

- Like variable, a constant is also uniquely labeled.
  - The label (identifier) has to be <u>unique</u> and <u>meaningful</u>.
  - Should form a noun.



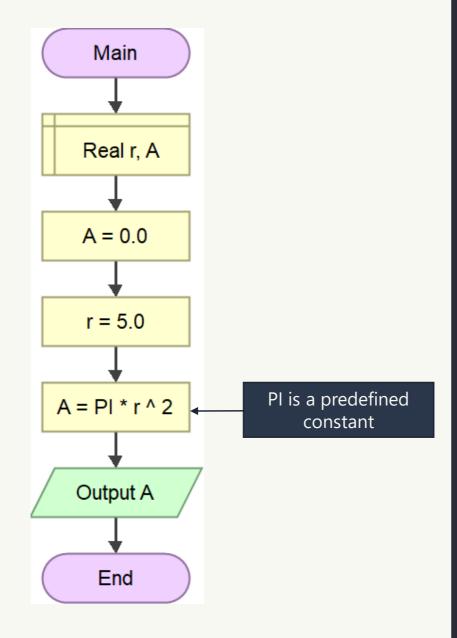
- Writing convention:
  - SNAKE\_CASE in all caps.
- Which of the following identifiers are good?
  - PI, DEFAULT GENDER, REMOVE, and SPLIT.

# **Constant in Flowgorithm**

- Flowgorithm has a handful of predefined constants.
  - true for Boolean True,
  - false for Boolean False,
  - PI  $(\pi)$  for approximately 3.1415,







#### Hands On

- In the solution, we declare two variables:
  - r to store the circle's radius.
  - A to store the circle's area.
- To do the calculation, we use PI is a predefined constant.

Final **Thoughts**.

#### Conclusion

**/** 

- 1. A constant is a non-modifiable "variable".
- 2. Flowgorithm has some predefined constants, but does not support user-defined constant.

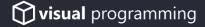


## References

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

REF

Constants – Flowgorithm
<a href="https://www.flowgorithm.org/documentation/constants.html">https://www.flowgorithm.org/documentation/constants.html</a>



**– E O F –** 



# Course Lecturer

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(D) @dasar-pemrograman



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