Dasar-Dasar Pemrograman 2

Poster Project

2.5% of final course grade





For this project, you will be assigned into a team of 3 (three) students (which all must share equal workloads, NO freeloader shall be tolerated).

The task is to make an *e-poster* of **A3 size** about **Java programming**.

Topics

The topic (and topic code) for your poster will be chosen from:

- **BP** Basic Programming (Selections and Repetitions)
- **AR** Arrays & Arraylist
- **GE** Generics
- **RE** Recursion
- **00 00**P
- **IP** Inheritance & Polymorphism
- AI Abstract Classes and Interfaces
- **EX** Exception Handling
- TE Text I/O
- **JF** JavaFX
- **BI** Binary I/O

You will be assigned randomly one of the above topics.*

*Exception:

We are not dictators:) If you want to pick out a specific topic about any cool Java library (that is not given in the course), feel free to ask for permission to your TAs/lecturer. Some examples of non-standard Java libraries are as follows:

- Jena (https://jena.apache.org/)
- Google Guava (https://github.com/google/guava)
- Weka (https://www.cs.waikato.ac.nz/ml/weka/)
- etc.



Content

What can be put into your poster:

- Who (small at top/bottom): Names, TA name, lecturer name
- **Motivation**: Why is the topic/feature important? Provide also data/screenshots of articles to support your argument.
- Overview: What is it?
- Details: How does it work?
- Code examples
- Cool images/icons to support your content

The above list is just a suggestion, you can rule out or add whatever makes your poster look nicer! Make sure that the content is made by your own. If there are sources taken from the Web (like icons, articles), include the references. The posters can be made in any language: Indonesian, English, Javanese, Sundanese, etc!

Important:

At the top/bottom of your poster, you should have both of these logos:

Creative Commons	Fasilkom UI
© BY	UNIVERSITAS INDONESIA Verilas, Perbilias, Datilia
	fakultas Ilmu Komputer

Resources

- Wallpapers: unsplash, pexels
- **Icons**: iconfinder, iconarchive, flaticon
- **Fonts**: fontsquirrel
- **Inspirations/tools:** Canva, https://venngage.com/templates/, Powerpoint, Corel Draw, Adobe Photoshop, Gimp, Inkscape



Publication

The poster must be shared online (in whatever media you like, which could be Instagram, Twitter, Figshare, Slideshare, Medium, FB, blogs, etc).

Best posters will be printed out and hung on the bulletin boards of Fasilkom UI, in cooperation with Fasilkom UI public relations (Humas Fasilkom UI). **You'll get viral for this**.

Grading Components

Component	Details	Weight
Design	Readability, structure, wow factor, and nice looks.	40 %
Content Quality	Correctness, clarity, and coherence.	40 %
Originality	Idea and originality of work.	20 %

Submission

Submit a ZIP file containing:

- A .txt file containing the group member names, student IDs, and the online poster link/social media shared link.
- A PDF file of your poster.

Submit your work to the submission slot on SCeLE with format specified below:

[C]-[TT]-[GG].zip

Where C is your class name, TT is the topic code, and GG is the group code.

For example: C-JF-08.zip

Report the progress of your work to your TA by: May 2, 2019 at 23:55

Submit your work by: May 16, 2019 at 23:55

The poster grading and winner announcement will be held on: Saturday, May 18, 2019 at

11:30

Author and Acknowledged Lecturer:

Dr. Fariz Darari

Modified by:

TA Team



Poster Examples

Programming Data Types



Integer

Whole Numbers

Any whole number can be represented by an Integer, usually stored as a single 32bit byte.

We can store 4,294,967,296 values in an integer.

int age = 29;

Real

Decimal Numbers

Any number with a decimal point, they are usually either 2 or 4 bytes long because they need to store a value for the whole number component and the decimal component.

double average = 17.61;

Character

Single

Any single letter, number or symbol can be stored as a character. It is one byte long and stores a single ASCII code to represent it.

char cender = 'f':

String

Many Characters

A one dimensional array used to store many characters together, for example a sentence.

Each character is a byte

String greating = "Hello there":

Boolean

TRUE or FALSE

A boolean only stores two possible values, usually TRUE or FALSE.

Normally one byte long. Really useful for conditions.

Boolean isRunning = TRUE;

Date/Time

Special integers

A date would be represented in the form XX/XX/XXXX e.g. 12/04/2023 and normally uses 8 bytes of memory.

Time would be represented in the form XX:XX:XX such as 18:21:59.

Arrays

Sets of Data

An array is a set of data of the same type that is grouped together using the same identifier. This means we can store loads of data in a single place.

Arrays work by having a size and ar

int() Coops = / 4 5 21

would create an array with three elements, 4, 5 and 21. To access these we start with index 0 which shows the first item in the array.

> Score[0] = 4; Score[1] = 5; Score[2] = 21;

2D Arrays

'Tables' of Data

Using two levels of index for an array turns it into a simple table that we can address through normal coordinate notation.

Score[0][3] = 9;

would access the fourth row of the

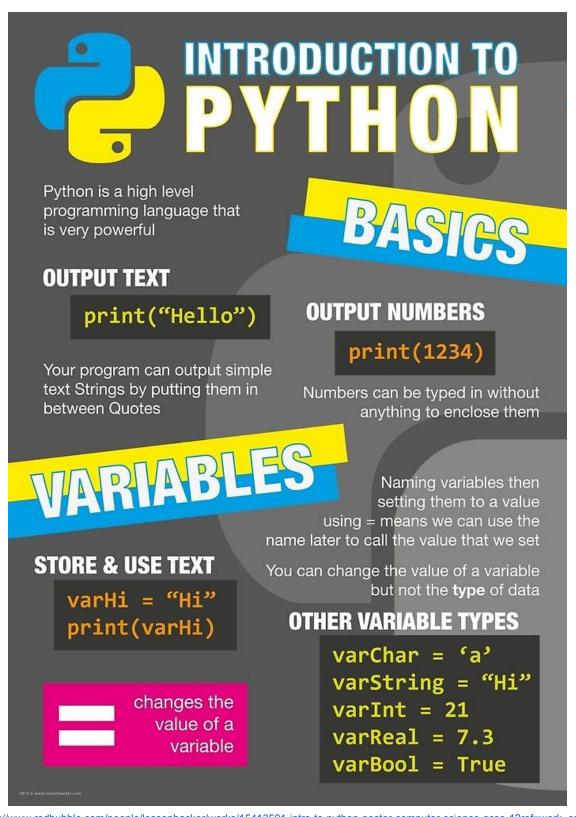
Records

A record is a way of storing lots of data, with multiple data types, together. Commonly used with databases, a record would store all of the information relating to a single subject in a data wrapper so that it could be kept logically together.

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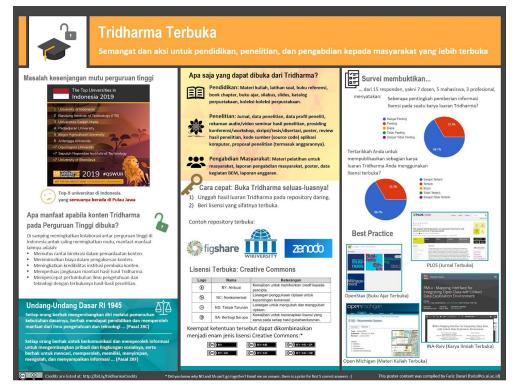
https://www.redbubble.com/people/lessonhacker/works/11635120-programming-data-types-coding-literacy?p=poster



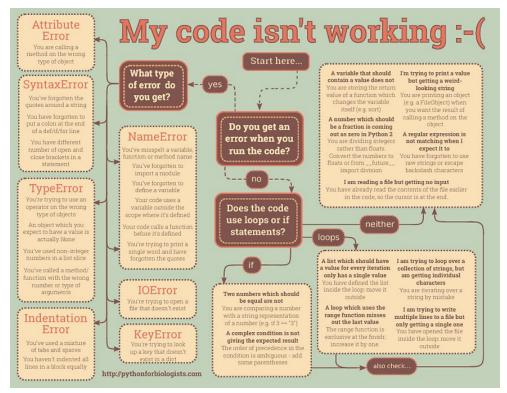


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Available as editable pptx file: https://zenodo.org/record/2613717#.XLKec-gzZhE



https://discuss.codecademy.com/t/what-common-errors-should-i-look-for/297497

