Supplementary notes ITP-MAY23-2

IntelliJ shortcuts - Java environment

psvm / main + TAB
alt + shift +f10 run - for first time
sout
souf

alt + enter for imports

CMD/CTRL + ALT + T + 6 for surround with try/catch

IntelliJ duplicate line
- Mac CMD + D
- Win CTRL + D

IntelliJ multi cursor
- **Select next occurrence of the current word or selection: _Ctrl+G_ on macOS and _Alt+J_ on Windows and Linux**
- Select all
  occurrences: _Ctrl+Cmd+G | Shift+Ctrl+Alt+J_
- _Shift+Ctrl+Alt+J on images interferes with guacamole flyout menu_
- Editing code with multi-select/multiple cursors (WebStorm docs)
- https://www.jetbrains.com/webstorm/guide/tips/multi-cursor/

VS Code shortcuts - Python environment

CTRL + B	toggle explorer pane / full screen
CTRL + +/-	up/down font size
CTRL + /	toggle comment on/off
CTRL + D	multi-cursor select
ALT + SHIFT + DOWN/ UP	duplicate line down/up

JAVA EXTRAS

POST-COURSE SELF-STUDY RESOURCES (JAVA)

Jenkov - great practical blog we recommend
http://tutorials.jenkov.com/

Heinz Kabutz newsletter - keeps you up to date with newest releases
https://www.javaspecialists.eu/

Heinz' Twitter:
@heinzkabutz

ALL Java SE (standard edition) 11 classes A-Z:
https://docs.oracle.com/en/java/javase/11/docs/api/allclasses.html

PYTHON EXTRAS

Libraries

Python standard
https://docs.python.org/3/library/

Python Open Source
https://pypi.org/

POST-COURSE SELF-STUDY RESOURCES (PYTHON)

W3
https://www.w3schools.com/python/

Docs
https://docs.python.org/3/tutorial/

notes / references from docs (Python):

https://docs.python.org/3/tutorial/modules.html

NOTES - README
dir(__builtins__)

This will output a list containing firstly builtin Exception Objects, then dunder data attributes and then what looks like a listing of the built-in functions (not built-in modules). The functions begin from abs which is at index 82. So to display just the functions from *__builtins__ we can use the slicing operator as follows:*

>>> dir (__builtins__)[82:]

or more generically:
>>> dir (__builtins__)[dir(__builtins__).index('abs'):]

to get command line commands to work copied in from PDF you may need to re-type quotes, which may be non-standard characters

https://docs.python.org/3/library/builtins.html

lists diff tuples
https://www.geeksforgeeks.org/python-difference-between-list-and-tuple/

objects to string
https://www.geeksforgeeks.org/str-vs-repr-in-python/

object equality and identity
https://www.geeksforgeeks.org/difference-between-

and-is-operator-in-python/

https://www.geeksforgeeks.org/difference-between-__eq__-vs-is-vs-in-python/

variable args
https://www.geeksforgeeks.org/args-kwargs-python/

Modules > Packages > Libraries > Frameworks explained
https://learnpython.com/blog/python-modules-packages-libraries-frameworks/

number format to two decimal places:
number = 3
>>> print(f'number: {number:.2f}')
number: 3.00

FROM THE INTRO: LINKS TO MIND CONTROLLED DRONE RESEARCH

Experimenting with brain-computer interfaces in JavaScript.
https://medium.com/@devdevcharlie/experimenting-with-brain-computer-interfaces-in-javascript-8d6cb891fda8

Look mum, no hands! — Brain controlled JavaScript - Charlie Gerard - JSConf EU 2018
https://www.youtube.com/watch?v=7KhFO-qCVyg

live demo in UI **12:35 (13:45)**

Charlie Gerard video from ITP:
INTRO - Charlie Gerard Mind Control With JavaScript
https://www.youtube.com/watch?v=Sp6egeaFNC4

CUE TO 07:55
PLAY FROM 07:55 - 10:05,
**   17:40 - 20:20**

07:55 - 08:35 you can control a lot of robotics devices with Node out back and JS on web front-end
 – so basically the one language

08:45 how you got started in software development
 – via advertising!

   -[14:15 I deleted everything story]

17:40 - 20:05 *be comfortable with failing (hardware and software), always unit test,*
 – *you learn a lot from failing - Facebook's fail fast!*
 – 19:15 - *not be scared of trying*

interested: Charlie's slide deck:
https://docs.google.com/presentation/d/1WQtkwAD6XOpUyt7sIcOhGp4qNAqZLpchrv_lcw1o1pY/edit#slide=id.g12b62d05e7_0_204
twitter:
https://twitter.com/devdevcharlie

Charlie on deep image reconstruction
https://www.youtube.com/watch?v=pVvf4jw0Ado

deep image reconstruction to visualise dreams **38:50 (40:45)**

https://www.youtube.com/watch?v=-PbpWYBRBgM
mind control drone demo **15:30 - 17:05**

open source gaze detection code
https://github.com/charliegerard/gaze-detection

hands free coding using gaze detection (with VSC extension ES7 snippets for React/Redux/GraphQL)
https://charliegerard.dev/project/hands-free-coding

Note VS Code is same editor as Charlie uses live

https://www.geeksforgeeks.org/ieee-standard-754-floating-point-numbers/

https://www.geeksforgeeks.org/java-string-format-method-with-examples/

C# tutorials https://www.w3schools.com/cs/index.php

https://learn.microsoft.com/en-us/dotnet/csharp/