

PKG 01: INTEGRATED DEVELOPMENT ENVIRONMENT (IDE) INSTALLATION and HELLO WORLD

- IDE Installation

- Official guides
- Detailed guides
- Free educational license

See File Manager/Tutorials/ IntelliJ_Installation_Windows.pdf

See File Manager/Tutorials/ IntelliJ_Installation_macOS.pdf

- IDE Installation Help

- Tutoring Sessions
- Voluntary Tutoring Sessions

See tutoring.ducta.net

IntelliJ, Reformat Code

- Windows: Ctrl+Alt+L
- Linux: Ctrl+Alt+L
- macOS: ⌘⇧L (Cmd+Alt+L)

See File Manager/Tutorials/IntelliJ_KeyMap_ReferenceCard.pdf

IntelliJ Open in Explorer

How to locate the code file
for assignment submission?

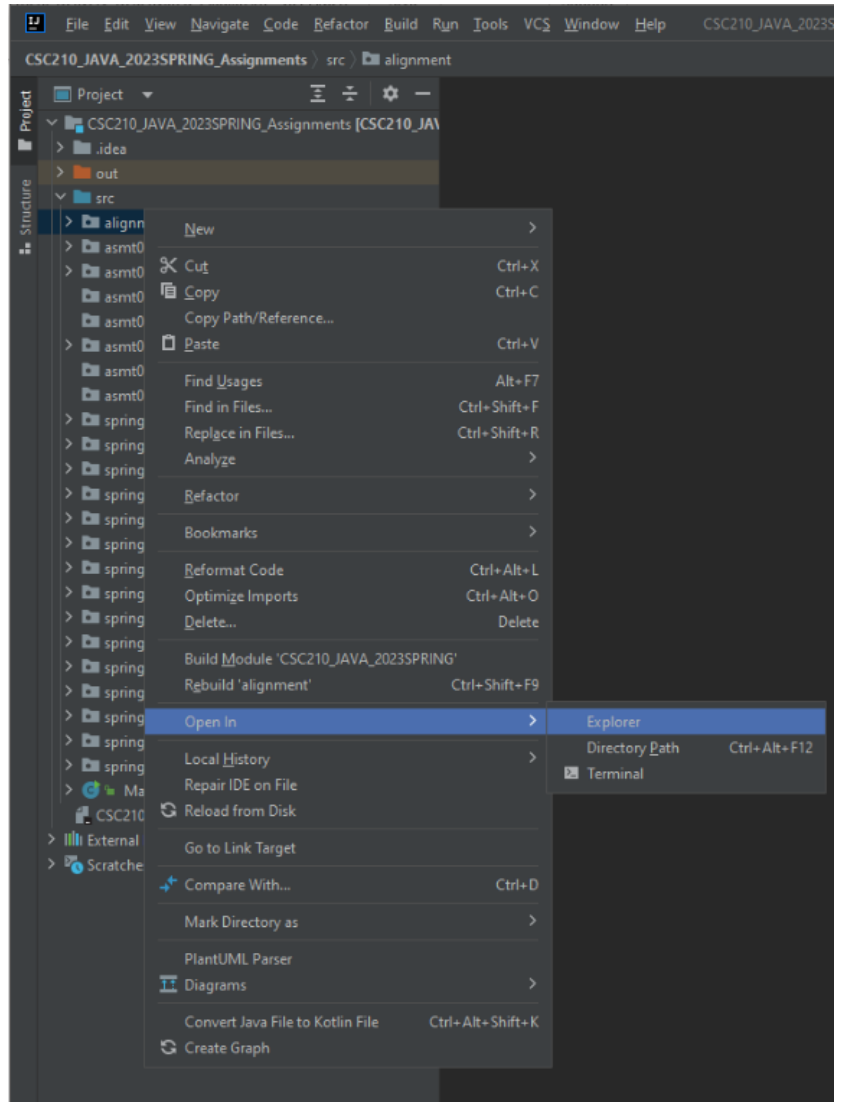
- Right-click on
the package folder

Windows

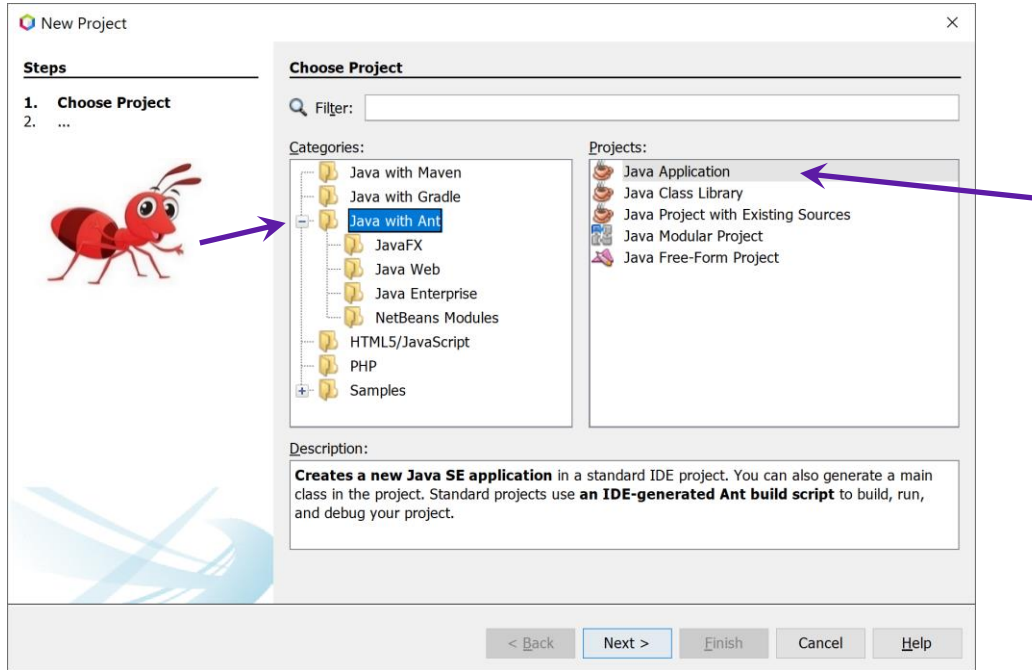
- Choose "Open In"
- Choose "Explorer"
- in the submenu

macOS

- Choose "Open In"
- Choose "Finder"
- in the submenu



ASNT 02, NetBeans IDE Requirements



The Assignment Report Template

- Why? And how are we doing?

See File Manager/Assignments/AssignmentReportTemplate/

No Late Submissions

- Adding the course?

See File Manager/Assignments/00-Guidelines_for_All_Assignments.pdf

"Students who are attempting to add the course must complete all the required works as if they were officially enrolled."

The Documents/Materials to know inside out this week:

01. Course Canvas
02. File Manager (sfsu/student)
03. Hello, CSC 215: File Manager/01-HELLO_CSC210.pdf
04. QUESTIONS, Who to Contact: File Manager/02-QUESTIONS_WhoToContact.pdf
05. Student Handbook: <https://handbook.ducta.net>
06. DL Tabs: <https://DL.ducta.net> and Discussion Sections: <https://discussion.ducta.net>
07. ASMT Advising: File Manager/Assignments/Assignment-Advising.pdf
08. ASMT Canvas: File Manager/Assignments/Assignment-Canvas.pdf
09. ASMT 01: File Manager/Assignments/Assignment-01.pdf
10. Guidelines for All Assignments: File Manager/Assignments/00-Guidelines_for_All_Assignments.pdf
11. Assignment Report Template: File Manager/Assignments/AssignmentReportTemplate/index.php
12. Grader's Expectation: File Manager/Assignments/01-Graders_Grading_Expectations_and_Policies.pdf
13. Syllabus TA: File Manager
14. Syllabus DA: File Manager
15. Honor Code: File Manager /00-README-StudentConduct_AcademicHonesty.pdf

```

125 HELLO WORLD
126
127
128 // ProjectHelloWorld.java
129
130
131 package projecthelloworld;
132
133 public class ProjectHelloWorld {
134
135     public static void main(String[] args) {
136         System.out.println("Hello World from SFSU!");
137     }
138 }
139
140
141

```

```

142 /* OUTPUT:
143 Hello World from SFSU!
144 */

```

```

147 HELLO WORLD

```

```

148
149
150 // ProjectHelloWorld.java
151
152 /*****
153  *
154  * Program Header
155  *
156  *****/

```

```

157
158
159
160
161
162 package projecthelloworld;
163
164 /**
165  * @author Duc Ta
166  */
167
168 public class ProjectHelloWorld {
169
170     /**
171      * Comment
172      * @param args the command line arguments
173      */
174     public static void main(String[] args) {
175         // Comment
176         System.out.println("Hello World from SFSU!");
177     }
178 }
179

```

```

180 /* OUTPUT:
181 Hello World from SFSU!
182 */

```

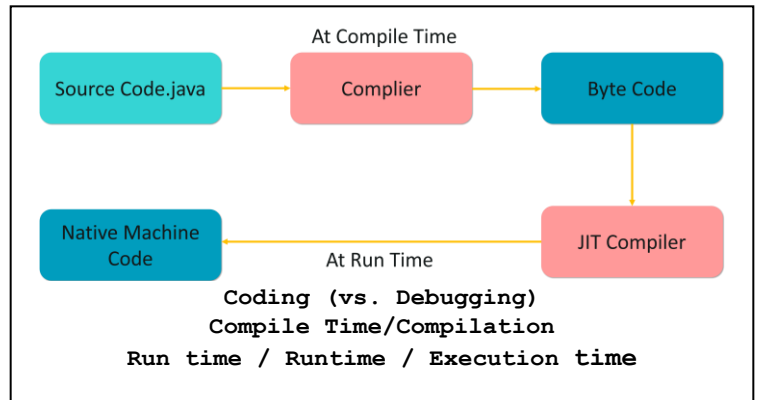
References:

- Style Doc: [Assignments/CSC210_ProgrammingStyleDocumentationGuidelines.pdf](#)
- More Help: [Assignments/Assignment-01_moreHelp/index.php](#)

```

187

```



188 HELLO print, println, printf, repeat

```
189
190 // Print.java
191
192 package pkg01;
193
194 public class Print {
195     public static void main(String[] args) {
196         System.out.println("Ro");
197         System.out.println("Sham");
198         System.out.println("Bo");
199
200         System.out.print("Ro");
201         System.out.print("Sham");
202         System.out.print("Bo");
203
204         System.out.println();
205
206         System.out.print("Ro\nSham\nBo\n");
207
208         System.out.println("PointA\nPointB");
209     }
210 }
211
```

```
/* OUTPUT:
Ro
Sham
Bo
RoShamBo
Ro
Sham
Bo
PointA
PointB

*/
```

```
212
213
214 // PrintRepeat.java
```

```
215
216
217
218
219
220 package pkg01;
221
222 public class PrintRepeat {
223     public static void main(String[] args) {
224         System.out.println("[:-) ".repeat(10));
225         System.out.println("[:-) ".repeat(8));
226         System.out.println("[:-) ".repeat(6));
227         System.out.println("[:-) ".repeat(4));
228         System.out.println("[:-) ".repeat(2));
229         System.out.println("[:-) ".repeat(0));
230     }
231 }
232
```

```
/* OUTPUT:
[:-) [:-) [:-) [:-) [:-) [:-) [:-) [:-) [:-) [:-)
[:-) [:-) [:-) [:-) [:-) [:-) [:-) [:-)
[:-) [:-) [:-) [:-) [:-) [:-)
[:-) [:-) [:-) [:-)
[:-) [:-)

*/
```

```
233
234 // PrintPrintf
```

```
235
236
237
238
239
240
241 package pkg01;
242
243 public class Printf {
244     public static void main(String[] args) {
245         System.out.println("1234567890 1234567890");
246         System.out.printf("%-10s %10S", "Taaa", "daaaa!!!");
247         System.out.printf("%n%.5f", 27.123456789);
248     }
249 }
250
```

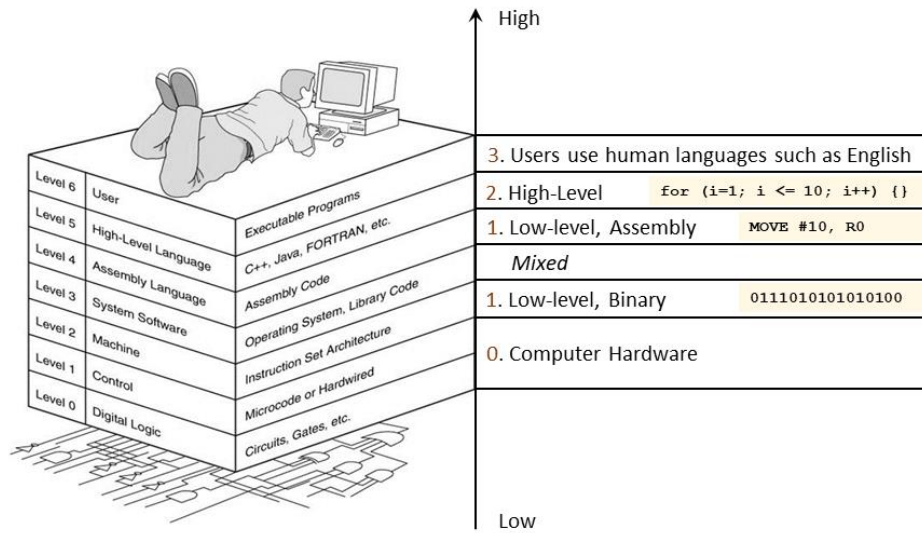
```
/* OUTPUT:
1234567890 1234567890

Taaa          DAAAA!!!

27.12346

*/
```

INTRODUCTION TO COMPUTER PROGRAMMING

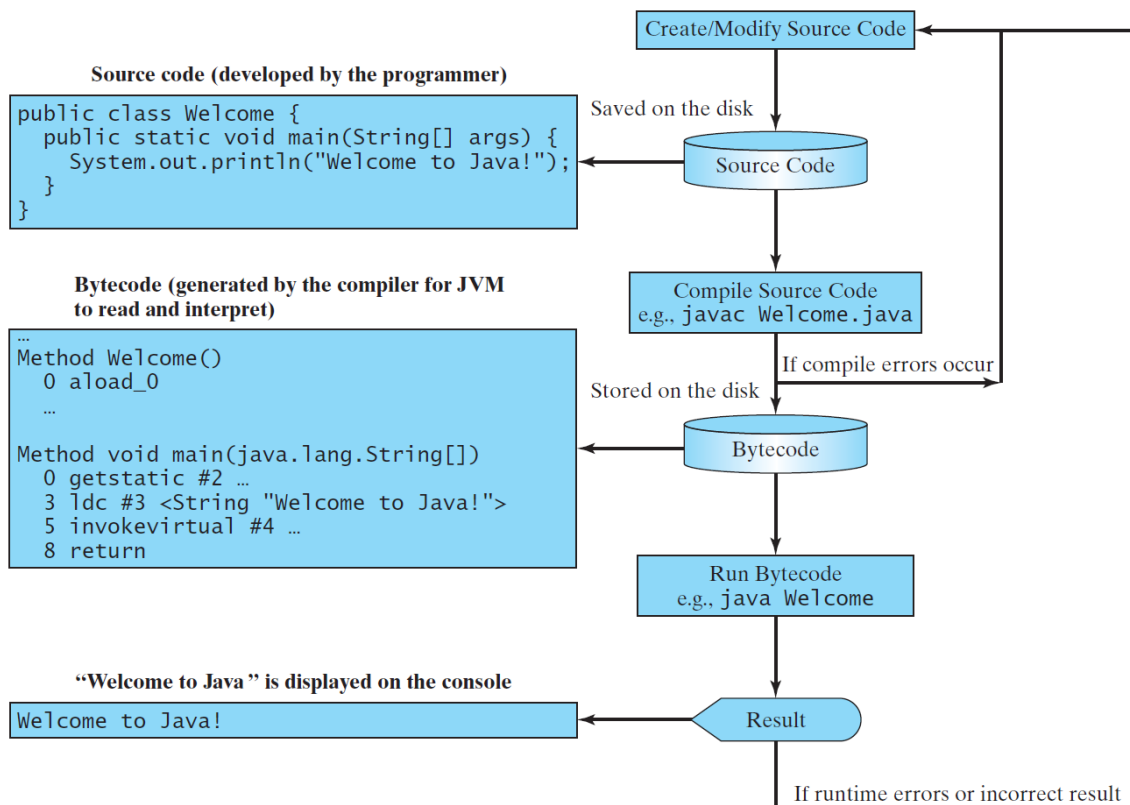


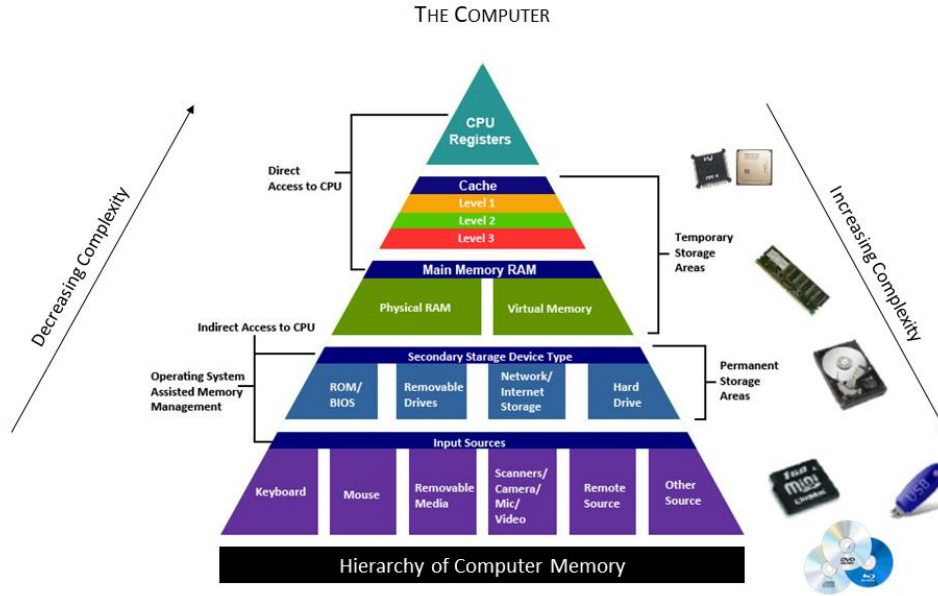
Computer Level Hierarchy

Programming Language Hierarchy

Duc TA, SFSU

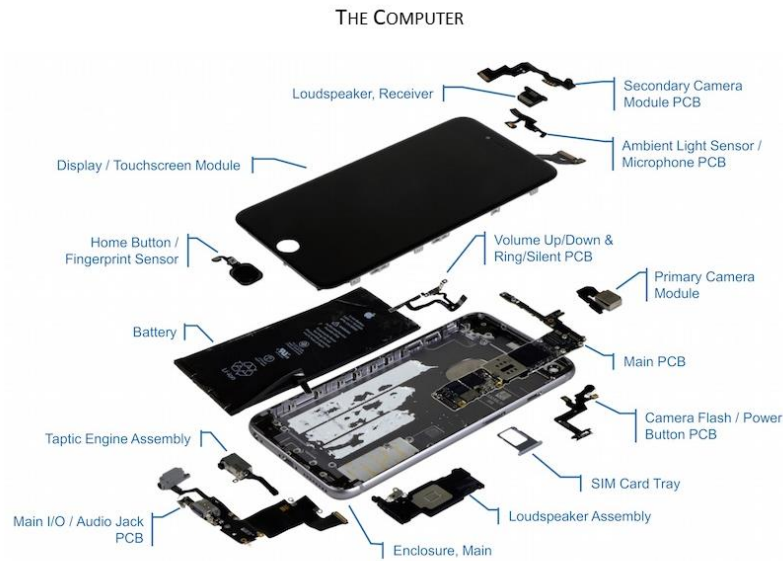
10





How MEMORY works: <https://www.youtube.com/watch?v=p3q5zWQw8J4>

8

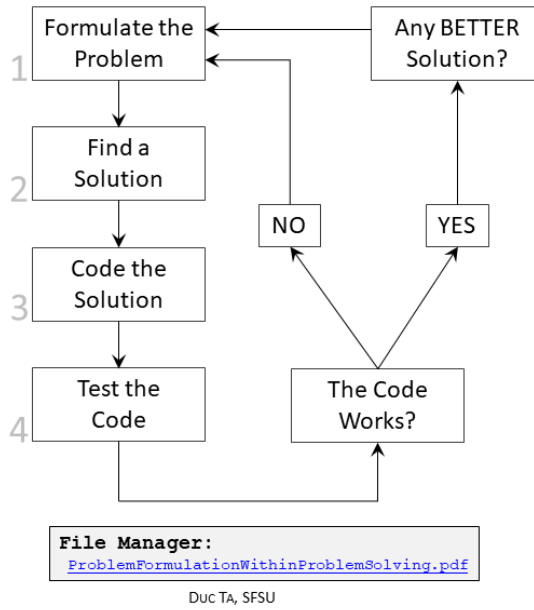


Inside an iPhone

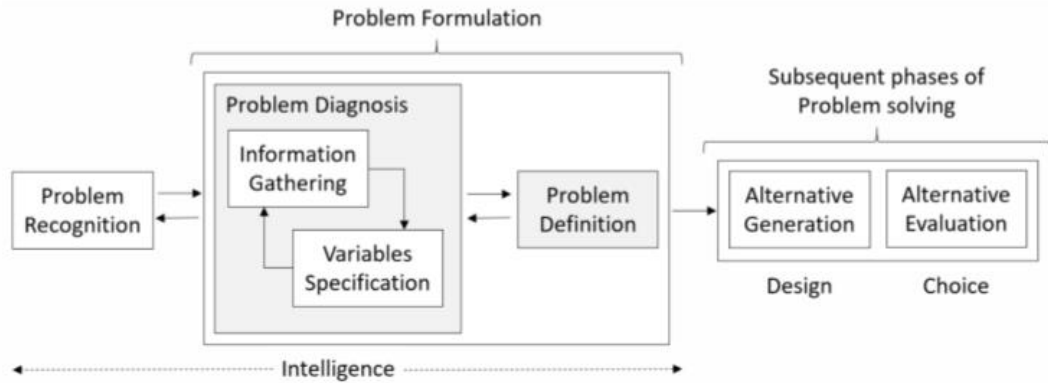
11

378
379 INTRODUCTION TO COMPUTER PROGRAMMING

380
381 The process of creating computer programs



Goals: Master Problem Solving Skills & Be Job-Ready



Formal Problem Formulation in the Development of Decision Support Systems,
 Association for Information Systems (AIS), AIS Electronic Library (AISeL),
 PACIS 1995 Proceedings, Pacific Asia Conference on Information Systems (PACIS), 12-31-1995

Goals: Master Problem Solving Skills & Be Job-Ready

11 CREATIVE PROCESS in PROBLEM SOLVING
 12
 13 The SIX PHASES of the PRACTICAL CREATIVE PROCESS
 14 --- The Path of The Everyday Hero (1991),
 15 Lorna Ruth Catford, Michael Ray
 16 1. PREPARATION 4. STRATEGIZING
 17 2. FRUSTRATION 5. ILLUMINATION
 18 3. INCUBATION 6. VERIFICATION

