COP1000 – Agenda for 2-Day Workshop

# Tuesday, March 12, 2019

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| 8:00 am to 3:30 pmHomework: | Objectives: Introduction to Alice 3.0, Storyboards, Pseudo Code, Algorithms**My First Alice Program**: Finding Nemo Debriefing: Classes, Objects, Methods, Attributes, Top-Down Design, Decomposition Objectives: Flowcharts, Variables, Parameters, Random Number Generation**My Second Alice Program**: Curupira’s Soccer Ball KickDebriefing: Procedural Decomposition, how random numbers were used, and how parameters were passedObjectives: User Input, Functions vs Procedures, ***Ifs***, Math Expressions**My Third Alice Program**: Bunny ArithmeticDebriefing: How to get user’s input, how to interact with user by giving feedback, how to validate user’s input.**Finish Alice Programs started in Class** |

# Wednesday, March 13, 2019

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| 8:00am to 3:30 pmHomework:: | Objectives: Loops – For Counter Loops vs While Loops, Billboards, Camera **Modify My Fourth Alice Program**: Ask user how many times they wish to practice their addition facts. Then, use that quantity in a For Counter loop, to repeat the addition drillsObjectives: While Loops, Random Numbers, Billboards**My Fifth Alice Program:** Turtle Walking to Random Object, While LoopDebriefing: How to detect collision using while-loop, using a random number to determine action; using billboards to tell a story.Objectives: Arrays and the benefits of using them with loops**My Sixth Alice Program:** Dancing Chorus Line (any object)Debriefing: Using for-each and for-all together loops for processing every element in an array, **Finish Alice Programs started in Class** |  |
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| Alice 3 in Action - 2nd editionISBN13: 978-1133589228by [Joel Adams](https://urldefense.proofpoint.com/v2/url?u=http-3A__www.textbooks.com_Author_Joel-5FAdams.php-3FCSID-3DAUBUBSTD2A2MD2MT2TD2OQSCB&d=DwMFaQ&c=lhMMI368wojMYNABHh1gQQ&r=cKRh4m60sM5SnOPbSUwrwg&m=aCYOJxPDhYuhtTwFmze8kiAdGY-h6DKbKRH8oGqxHfk&s=YBRHu6OtJrvZfk1zeaQUU9BKnm3K3mN8V-XQq8w8G0g&e=) |  |



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