***Documentation Packet [ 30 28 03 25 ] Mar 28th 2025***

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| Student Name: |  |
| Goals:  1. Prep for NOCTI Written Portion | Events:  1. No School Monday |
| Included Documentation  1. Console Data Entry Program 2 2. NOCTI Flow Charts 3 3. MOCKTI Test 4. Reflections | Required Documentation:  1. Console Data Entry Program 2 2. NOCTI Flow Charts 3 3. MOCKTI Test 4. Reflections |
| Changes/Notes: | |

# Console Data Entry Program 2

Using Python or as few npm modules as possible (you may need readline-sync), create a program that can do the following in console:

1. In the console, ask the user if they want to *Start A New Order, Edit Existing Order,* or *Show All Orders*. They may type in a number for their option.
2. If they start a new order, ask the user to input the name and (fake) address of the customer order. Add this as properties to an “order” object and save the new “order” to and “orders” array. Then return them to the main selection (step 1)
3. If they choose to edit an order, list every “order” in the “orders” array, numbered, starting at one (1). The user may type in the number associated with the order to edit it.
   1. Ask the user if they want to *Add an Item,* or *Finish Editing*
   2. If they want to add an Item, collect the item’s name, the quantity, unit price and retail price. Add this information as properties of an “item” object, add it to and “items” array, and add that array to the order’s object in the “orders” array. Then return them to the edit order selection (step 3)
   3. If they wish to *Finish Editing*, calculate the order totals
      1. Tally up the subtotal of all items’ retail prices multiplied by their quantity
      2. Calculate profit by subtracting combined unit prices from the subtotal.
      3. Calculate the sales tax (6% of subtotal)
      4. If the subtotal is less than $50, the shipping cost is $5. Otherwise, it’s free
      5. The total is the subtotal, the sales tax, and the shipping fee.
      6. Save these as properties of the “order” object
4. If they choose to show all orders, then for each order in the orders array:
   1. Display the name of the customer and their address
   2. Display each item ordered, the quantity, and the unit price (price of one)
   3. Display the subtotal, profit, sales tax, shipping, and total of that order

When complete, save the main “.js” file as “FirstnameLastname.js” in a folder named “ConsoleDataEntryProgram3” in this week’s DocPac. Commit and submit a Pull Request

# NOCTI Flow Charts 3

***No AI allowed on this assignment. This is to build your problem-solving skills around algorithms.*** To practice the first half of the performance portion of the NOCTI, write a flow chart for each of the problems below. Be sure to use the correct shapes and conventions as taught in class. Remember to use *pseudocode* to describe the steps. Use Microsoft Visio to create the flow chart. Each flow chart should be on it’s own “page” in Visio. When complete, Print to PDF. Name the file “FirstnameLastname.pdf”, where Firstname is your first name and Lastname is your last name. Put this file into a folder called “NOCTIFlowCharts3” (the exact spelling and capitalization of this assignment without spaces) inside of this DocPac folder. Commit and submit a Pull Request.

## Pog Sorter

Create an algorithm that can sort through a stack of pogs and sort them into four piles: Red Pogs, Green Pogs, Blue Pogs, and Slammers. It does not matter what color the Slammers are. After sorting, tell the user how many pogs are in each pile.

## Ages From List

***Do not copy/paste this from last week! Rewrite this from scratch to memorize it!***

1. Open a given file and store the CSV contents to a list of objects (people and their birthdays)
2. Prepare all variables for calculating an average and a date
   1. Today’s date, converted to epoch time
   2. Number of people counted
   3. Total value of people’s ages
3. For each person in the list:
   1. Convert their birthday to epoch time
   2. Calculate their age
   3. Add their age to the total value of people’s ages
   4. Increase the number of people counted
4. Calculate the average age of people in the list
5. Output how many people are in the list and what their age is

## Best Pokémon

Write an algorithm that sorts all 8 bajillion Pokémon into Tiers S, A, B and C (1 being the best). This is based on three criteria of your choosing. Each criteria met increases that Pokémon’s score by 1. A score of 3 is an S tier, and a score of 0 is a C tier. After each Pokémon, tell the user that Pokémon’s score. Then after sorting all Pokémon, tell the user how many of each tier there are.

# Reflection

**What was one mistake you made in school or otherwise that you can recognize? What can you do in the future to prevent it from happening again?**

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**What is your confidence level with the NOCTI Written portion? What can you do to improve this confidence if needed, and when will you do it?**

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**Reflect on your NOCTI Prep Quiz. What is your confidence that you can create a working program to specification in a limited amount of time? What can you do to improve this confidence and when will you do it?**

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| 10 | You went above and beyond expectations. You applied knowledge that was not taught in this class in addition to what was taught. Additional rewards are given | * ***If the assignment does not have its own rubric, it will default to the rubric on the left.*** * All assignments start at 10/10 possible points * 1 point is deducted per infraction   + Lateness   + Mistakes   + Unprofessionalism   + Not following instructions * Outstanding submissions, or submissions on assignments not marked in “Required Documentation” can reward pogs |
| 10 | You performed as well as can be expected for this class. You show a complete understanding and made no mistakes. You have mastered the subject. |
| 8 | Assignment is complete. You show a good understanding of the subject, but there are mistakes or minor incorrect details. You are ready to move to new subjects. |
| 7 | You show and understanding of the subject, but there are serious errors, or there are pieces you can practically use without understanding them. Remediation needed. |
| 6 | Assignment is incomplete but/or you showed that you understand at least the fundamentals of the subject. Assignment is low effort. Serious need of remediation. |
| 5 | You show minimum effort, assignment is incomplete, or have serious mistakes. You did not demonstrate that you understand the content or purpose of the submission. |
| 0 | The work was not submitted, damaged, seriously incorrect, or unprofessional. The submission is rejected. |

# Console Data Entry Program 2

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| --- | --- | --- |
| **1** | Submission Directions |  |
| **2** | Add Orders |  |
| **3** | Edit Orders |  |
| **4** | Show Orders |  |

# NOCTI Flow Charts 3

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| --- | --- | --- |
| **1** | Pog Sorter |  |
| **2** | Ages From List |  |
| **3** | Best Pokémon |  |

# MOCKTI Test

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| --- | --- | --- |
| **1** | Submission Directions |  |
| **2** | Add Orders |  |
| **3** | Edit Orders |  |
| **4** | Show Orders |  |
| **5** | Correct Shapes |  |
| **6** | Correct Labels |  |
| **7** | Correct Algorithm |  |

# DocPac and Reflection *DocPac Submission Rules, DP09*

|  |  |  |
| --- | --- | --- |
| **1** | DocPac is turned in on time |  |
| **3** | a. DocPac is neatly folded |  |
| **3** | b. DocPac is not stained or damaged |  |
| **3** | c. No doodles, scribbles, or unnecessary writing |  |
| **4** | a. Answered each question in each prompt fully (no short answers) |  |
| **4** | b. Spelling and handwriting |  |
| **4** | c. No repeated answers from other DocPacs |  |
| **4** | d. Did not paraphrase assigned work |  |
| **6** | You are prepared to justify the use of any AI (you know what it does and why) |  |