***Documentation Packet [ 28 14 03 25 ] Mar 14th 2025***

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| Student Name: |  |
| Goals:  1. Practice Flow Charts for NOCTI | Events:  1. None |
| Included Documentation  1. Console Data Entry Program 2. NOCTI Flow Charts 2 3. Weekly Scrum 4. Reflections | Required Documentation:  1. Console Data Entry Program 2. NOCTI Flow Charts 2 3. Weekly Scrum 4. Reflections |
| Changes/Notes:  1. Change to Reflection Rubric | |

# Console Data Entry Program

Using only nodejs (no download npm modules), 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, and 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’ prices multiplied by their quantity
      2. Calculate the sales tax (6% of subtotal)
      3. If the subtotal is less than $50, the shipping cost is $5. Otherwise, it’s free
      4. The total is the subtotal, the sales tax, and the shipping fee.
      5. 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, sales tax, shipping, and total of that order

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

# NOCTI Flow Charts 2

***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 “NOCTIFlowCharts” (the exact spelling and capitalization of this assignment without spaces) inside of this DocPac folder. Commit and submit a Pull Request.

## Bank Teller

1. User inputs their pin
2. User inputs a withdrawal amount
3. If the user’s pin input does not match their pin
   1. Output an error message informing them
   2. Restart from the pin input
4. If the user’s withdrawal input is greater than their balance
   1. Output an error message informing them
   2. Restart from the withdrawal input

## 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

## Longest Name Finder

Take a list of names from a file (as an input). Determine which of the names is the longest in the list, and output it.

## Blackjack AI

Write an algorithm to draw cards until the total face value of all cards is 17 or greater. Jacks, Queens, and Kings all count as 11.

# Weekly Scrum

Follow the typical Weekly Scrum Meeting parameters, except you do not need to prepare for additional work this week. Only report and demonstrate what was done last week.

# 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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**How has collaborating in your team been so far? What is going well, and what is not poorly?**

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**What do you think is the biggest thing holding you back from developing a career or developing your skills as a programmer? What can you change to fix this?**

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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

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

# NOCTI Flow Charts 2

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| --- | --- | --- |
| **1** | Submission Directions |  |
| **2** | Times Tables |  |
| **3** | Password Checker |  |
| **4** | Ages From List |  |
| **5** | GPA Calculator |  |
| **6** | Overall Neatness/Readability |  |

# 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) |  |

# Weekly Scrum Company:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Issue:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Wrapping up previous week** | | | | |
| Was prepared for the meeting with the proper materials (laptop, notebook, on time) | Was prepared to demonstrate complex work completed on laptop | No preventable delays occurred in the previous week’s work | Issue was completed. Issue, Project, and Pull Request all updated and documented correctly | Problems and delays from the previous week were well documented on the Issue |