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Data Structures and Algorithms

Critical Reflection

Week 3 – Task B

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**Analysis of tasks**

What went well

This task was challenging with the methods of displaying the employees and availability, however, the task was successfully implemented. The output was displayed as intended and all functions work and weren’t complex to implement, there are error catching such as ensuring the fields of the add employee field has been filled in.

Employees are either available or unavailable, successfully deploying the employees name, ID, and availability.

All methodology is understood of how to add and select entries from a dataset.

Encountered difficulties

Some difficulties encountered were how to format the display of the employee details. With the error catching, to delete an entry you must select the employee prior to deleting, despite the entry being displayed with the last selected entry. Adding a new entry was potentially the hardest method to develop.

**Difficulty assessment**

The challenging aspects to this task was the displaying and locating the data associated with the selected employee, to overcome this passing the selected ID to identify the other associated data, then passing this too the display iterating through the data such as name ID and availability.

**Improvement/Reflection**

To improve this task adding error catching such as when the employee has not been selected for deletion prompt the user to select an employee to delete, same with selecting an employee to view. Proper formatting of the displayed users to one data entry per each line. The final addition would be to specify the days of availability of the week, such as users being Monday – Sunday available and could select the employee based on these criteria rather than the employee ID. To implement these features wouldn’t be too difficult a simple if statement with checkboxes referring to the day of the week, having another field with which the user could filter employee ID’s based upon the day they’re available.