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# Report Introduction

The Shell Scripting with Bash assignment was indeed a useful one for the development of our Unix skills. It was tough in many areas however as a team we were able to push through and conquer the difficulties we faced. We are happy with our finished product.

# How we approached the assignment

## Breaking down tasks

We started by reading through the project brief to get an understanding of the task at hand and then went straight into making a list of things we would need to do to reach out goal. By itemising things, it made the task seem a lot easier as it was essentially a lot of simple jobs.

## Team Meetings

We had several team meetings to catch up on what we had all been working on (Obviously subsidised by group messages so we weren’t working on the same stuff). The meetings proved very useful for running ideas by each other or bouncing around questions for things one of us didn’t understand. These meetings were hosted on Microsoft teams.

## Keeping code commented

We found it very useful to keep all of our code commented so that we could see what each other were doing and how each of our code worked without needed everything explained to us every time. Its good practice for a reason.

# The problems we faced

## Validating Input

Getting the input validation working properly, just the way we wanted it to work, was a fair task. In the end the idea that was went with was to have the program write out bash error messages to a file, then if error messages were present in the file the program knew that the input could not be right and was therefor invalid. Then you could have the console output one of our error messages telling the user that what they have enter is differing from what was expected.

## Deleting everything

We wanted a function that could clear the program back to a fresh start, factory new kind of state. It was initially decided it would be too complicated to try to account for every possible file that the user could have created when deleting everything and so a full wipe would be the best course of action; this however created its own problem, because just like everything it created, the script itself was a file in the project directory and it was therefor deleting itself. After quite a bit of online research eventually a way of preserving the script was found and the function is now fully working. This function is the delete all repos function.

# Conclusion

There were a few bumps in the road however the team pulled together and got the job done. We feel we all gleamed some new knowledge and a better understanding of the language. Even though this was an assignment, it was still useful as a lesson.

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