

207SE – Operating Systems, Security and Networks

Portfolio 1: Feedback Sheet

Lab Activity 1 – Introduction to Operating Systems

Feedback

Strengths:

Section on Future of Operating Systems

- An excellent section on the comparison between the Harvard Architecture and the Von Neumann Architecture. There is a nice selection of references that support your findings.
- Nice use of diagrams.
- Nice selection of references.

Programming Activity

- Very good you have a robot instruction checker that has most of the required functionality.
- You include some examples of the code running.

Improvements:

Section on Future of Operating Systems

- None, you have created an appropriate section comparing the two computer architectures.

Programming Activity

- Extend the functionality offered by the syntact checker for robot instructions.
- In the robot instruction activity you might have added more detailed explanation for the syntax decision.
- Ensure you have sufficient examples of the code running.

Lab Activity 2 – Linux Commands

Feedback 4

Strengths:

- Very good, you completed most of the linux command activities.

Improvements:

- Ensure that you complete the missing linux commands activities.
- Use the appropriate grep command to show only lines not containing the words "she" or "he". Lines contain both "she" and "he" should be shown.
- To sort, reverse and append use sort -r poem.txt >> poem2.txt.
- When you do the grep command to show the lines you should have include -c to count the lines and -n to number them.

Lab Activity 4 - Bootloader

Feedback

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|--|--|
| Strengths: <u>Basic Bootloader Tasks</u> - You complete the basic tasks correctly. <u>Advanced Bootloader Tasks</u> - You have used a nested loop to create the diamond. | Improvements: <u>Basic Bootloader Tasks</u> - None, You completed the Basic bootloader Tasks successfully. <u>Advanced Bootloader Tasks</u> - Create a user defined diamond that uses loops with the bootloader. |
| Lab Activity 5 – Proc | |
| Feedback | |
| Strengths: <u>Basic proc Tasks</u> - You carry out most of the proc file manipulation tasks successfully. <u>Advanced Shell Script Tasks</u> - Excellent shell script that cover all of the requirements. | Improvements: <u>Basic proc Tasks</u> - You should complete the missing activities and consider some of your Linux commands to get the appropriate outputs. - You could have remove the title line before counting the device drives. <u>Advanced Shell Script Tasks</u> - The option of finding the PID and the PPID should be done in a more interesting manner. |
| Lab Activity 6 – Memory Management | |
| Feedback | |
| Strengths: <u>Basic Memory Management Activities</u> - You complete the basic Memory Allocation Activity. - You complete the basic Paging Activity. <u>Advanced Paging Activity</u> - You successfully create the code to complete the paging system. - You show the code and the code running. | Improvements: <u>Basic Memory Management Activities</u> - You completed the memory allocation approach. - You completed the basic Paging Activity. <u>Advanced Paging</u> - None, the code to complete the paging system is present. |
| Lab Activity 8 – Cache Library | |

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Feedback

Strengths:

Basic Cache Library Task

- You complete the code to add the required function.

Advanced Cache Library Tasks

- Outstanding, You adapt the code to provide all of the statistical information.
- Outstanding, You adapt the code to show one character is read at a time and when the buffer is filled.

Improvements:

Basic Cache Library Tasks

- None, you created the function to return each character.

Advanced Cache Library Tasks

- None, You complete the Advanced Task to provide statistical information.
- None, you completed the activities to show that one character is read at a time and when the buffer is filled.

Lab Activity 10 – Cache Library System Calls

Feedback

Strengths:

Basic Cache Library System Calls Task

- You successfully convert all of the functions to system calls.

Advanced Cache Library System Calls Task

- You adapt the code to reduce the impact of the caching on the library.

Improvements:

Basic Cache Library System Calls Task

- None. you completed all the elements of the Basic Task for lab 10.

Advanced Cache Library System Calls Task

- You should have devise an approach to show that you reduced the impact of caching on the library.

Presentation

Feedback

Strengths:

Structure of the Report

- The report has a very good structure and layout.

Presenting the Outcomes from the Tasks

- The outcomes presentation has a very good feel.

References

- Good Referencing.

Improvements:

Structure of the Report

- The report needs a little work on the layout and structure.

Presentation of Outcomes the Tasks

- The presentation of outcomes needs a little work.
- Make use of figure captions and numbers.

References

- Make a little better use of references.

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Contents Page and Page Numbers

- Excellent you include a contents page and page numbers.

Presentation of the Code in the Report

- Excellent you use an approach that colour codes the components of your programs.

Contents Page and Page Numbers

- None, content page and page numbers present.

Presentation of the Code in the Report

- None, the look is appropriate.

Overall Comments

An outstanding portfolio, I look forward to seeing your Portfolio 2.

Assessor (Please Print): Mark Elshaw