

# 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

- A very good attempt at the future of operating systems. You show a very good understanding of the future operating systems.

- Basic use of referencing.

##### Programming Activity

- Very good you have a parser that has most of the required functionality.

##### Improvements:

##### Section on Future of Operating Systems

- Include more details on the section on the future direction of the operating systems.

- Make better use of references in the section.

- Make better use of a diagram in the section on the future of operating systems.

##### Programming Activity

- Extend the functionality offered by parser.

- In the parse activity you might have added more detailed explanation for the grammar decision.

- Ensure you have sufficient examples of the code running.

### Lab Activity 2 – Linux Commands

#### Feedback

##### Strengths:

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

##### Improvements:

- Ensure that you complete the missing linux commands activities.

- The grep commands should have been something like (i) 'grep -v 'it.\*and\|and.\*it' poem.txt | grep ' it \| and ' and (ii) 'grep -v 'it.\*and\|and.\*it' poem.txt | grep ' it \| and '

- 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 included the number of the lines using -n and to count the lines using -c.

### Lab Activity 4 – Bootloader

#### Feedback

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### Strengths:

#### Basic Bootloader Tasks

- You complete the basic tasks correctly.

#### Advanced Bootloader Tasks

- You have used a nested loop to create the square.

### Improvements:

#### Basic Bootloader Tasks

- None, You completed the Basic bootloader Tasks successfully.

#### Advanced Bootloader Tasks

- Make use of user input.
- Comment the code with the required level of detail.

## Lab Activity 5 – Proc

### Feedback

#### Strengths:

##### Basic proc Tasks

- You carry out most of the proc file manipulation tasks successfully.

##### Advanced Shell Script Tasks

- A very good attempt at the menu shell script with much of the requirements made in an efficient manner.

#### Improvements:

##### Basic proc Tasks

- Make changes to your commands to complete the requirements.
- You could have used uniq to prevent duplications of the details.
- You could have remove the title line before counting the interrupts.

##### Advanced Shell Script Tasks

- The option of finding the PID and displaying the process status could be performed in a more interesting manner. For example it could have include - state=\$(cat /proc/"\$pid"/status | grep State | awk {'print \$3'})
- Comment the code with the required level of detail.

## Lab Activity 7 – Buffer

### Feedback

#### Strengths:

##### Basic Buffer Tasks

- Excellent you complete all the basic activities for the Buffer lab.

##### Advanced Buffer Tasks

##### Comparing the Files

#### Improvements:

##### Basic Buffer Tasks

- None, You complete the Basic Tasks successfully.

##### Advanced Buffer Tasks

##### Comparing the Files

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- You successfully adapt the code so it can compare two files.

### Creating the Summary

- You successfully adapt the code to create a basic summary.

- Although you do alter the code to compare the file, I would have liked a more interesting approach to represent the differences.

### Creating a Summary

- Although you attempt the code to create the summary, I would have liked a more interesting approach.

## Lab Activity 8 – Cache Library

### Feedback

#### Strengths:

##### Basic Cache Library Task

- You complete the code to add the required function.

#### Improvements:

##### Basic Cache Library Tasks

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

##### Advanced Cache Library Tasks

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

##### Advanced Cache Library Tasks

- You should adapt the code to provide all of the statistical information.  
- None, you completed the activities to show that one character is read at a time and when the buffer is filled.  
- Count the keywords.

## 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.

#### 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

- None, You failed to attempt the Advanced Tasks for Lab 10.

##### Advanced Cache Library System Calls Task

- You should have adapted the code to limit the impact of caching by setting the appropriate flags when opening the file.

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	- You should have devise an approach to show that you reduced the impact of caching on the library.
<b>Presentation</b>	
<b>Feedback</b>	
<b>Strengths:</b> <u>Structure of the Report</u> - The report has an excellent layout and structure.  <u>Presenting the Outcomes from the Tasks</u> - The outcomes presentation has an excellent feel.  <u>References</u> - Basic Referencing.  <u>Contents Page and Page Numbers</u> - None, no contents page or page numbers.  <u>Presentation of the Code in the Report</u> - There is a little too much use of screenshots of the code.	<b>Improvements:</b> <u>Structure of the Report</u> - None, the structure needs little improvement.  <u>Presentation of Outcomes the Tasks</u> - The presentation of outcomes needs a little work.  <u>References</u> - Make better use of references.  <u>Contents Page and Page Numbers</u> - Include a contents page and page numbers  <u>Presentation of the Code in the Report</u> - Make better use of an approach that colour codes the syntax of your programs. - Add the missing code.
<b>Overall Comments</b>  An outstanding portfolio, I look forward to seeing your Portfolio 2.	
<b>Assessor (Please Print): Mark Elshaw</b>	