**Assessment Task: Batchscript**

**Assessment Overview**

You will create a batchscript that will carry out tasks on a Windows 7 computer. It will assess learning outcome 1.

**Assessment Table**

|  |  |  |
| --- | --- | --- |
| **Assessment Activity** | **Weighting** | **Learning Outcomes** |
| Exam (Week 16) | 40% | 1, 2, |
| Skills-based assessment (on going – labs, week 16) | 40% | 2, 3 |
| Assignments (Handed out **week 5** and week 8) | 20% | **1**, 2, 3, |

#### **Learning Outcomes**

1. Use and recall systems tools, command line and scripting to configure, maintain, and secure operating systems in local and virtual settings.
2. Identify, explain, install and troubleshoot typical faults (both hardware and OS) for the main components of a computer.
3. Connect and configure a range of devices to enable network functionality.

**Authenticity**

All parts of your assessment must be your own work.

**Late Submission, Reassessment, Extensions**

The School process in relation to Submissions, Extensions, Resubmissions and Resits complies with Otago Polytechnic Policies. Students can view policies on the Otago Polytechnic Website located at <http://www.otagopolytechnic.ac.nz/>.

Resubmission is where an original assessment is returned to the student for minor reworking and then being resubmitted for final grade. Where a student achieves a D grade for any assessment, an application for resubmission may be made to the Head of School. A maximum of two resubmissions will be permitted in any one year for any student.

Resubmissions are completed within a short time frame (usually no more than five working days) and usually must be completed within the timing of the course to which the assessment relates. Resubmissions will be available only to students who have made a genuine attempt at the first assessment opportunity. The maximum grade awarded for a resubmission will be C-.

Information about late submission and extensions can be located in the Course Outline.

**Marking Guide**

**Each question starts with 4 marks.**

1 mark off for a small error.

2 marks off for a significant error

3 marks off for a good attempt

4 marks off for wrong track completely or no attempt

**IN520 Platforms and Devices**

**Batch Script File Assignment (worth 10% of final mark)**

Due

Thursday April 9th 5.00pm

Task

Create abatch script file with a text editor of your choice – Notepad/Notepad++/Editplus.

File Header

At the beginning of the file, insert a text header made up of non-executable comments (there is a command to do this – look in the HELP list), labelling and describing the following information on multiple lines:

* The name of the batch script file
* A paragraph describing the purpose of the script
* Your name and student ID
* The course name, your year and semester, and your study stream

After the header comment, insert a command that outputs the file name to the screen.

File Contents

Throughout each file, insert command statements to perform the actions specified in the lists below.

Before each action, insert statements that output to the screen a description of each step that you are about to perform. Each displayed output should contain the following information:

* A blank line, to make the output more readable
* A line containing:
* The Question Number, from the list
* The name of the command (or commands) that you have decided to use
* A brief description of what the command is supposed to do (you can copy this from the table if you wish)

After each action from the table, insert a statement to display another blank line. Then insert a statement to suspend processing of the script, to enable the examiner to look at the script file’s output before pressing the Enter key to continue (there is a command to do this – look in the HELP list.)

Throughout the batch script file, ensure that the lines within the file are not displayed to the screen as they are processed (there is a command to control this – look in the HELP list), except when it is necessary to demonstrate the working of the batch script.

Layout

Ensure that the text within each batch script file is laid out neatly and consistently. In particular:

* Use uppercase letters for all command line commands, switches and switch values
* Use consistent lettering for all command line command parameters, such as file names
* Leave blank lines around each section within each file
* Use spaces and tab characters to line up any columns
* Check your spelling, punctuation and grammar throughout

Submission

Upload to Batchscript Assignment section in class Teams site.

Batch Script File: **MAIN.BAT**

A1: Output a line to the screen that displays your name

A2: Create a folder on the root of the C: drive called “My Batch Script File Assignment”

A3: Change into the “My Batch Script File Assignment” folder.

A4: Create a folder within “My Batch Script File Assignment” called “Input”

A5: Create another folder within “My Batch Script File Assignment” called “Processing”

A6: Create another folder within “My Batch Script File Assignment” called “Output”

A7: List all *hidden* files in the root directory of the C: drive – output the listing to a file called “Input Data.txt” in the “Input” subfolder.

(In this assignment, you won’t be using the contents of this file as actual input, but it is possible to do so.)

A8: Make a backup copy of Input Data.txt on the root of the C: drive, and with the same name, but with extension “.bak”.

A9:” Go to the root directory of the C: drive

(This command must work the same from ***whichever*****drive**, **folder** or **subfolder** the script is currently in.)

A10: Update the folder search path for batch script file execution to include the “Processing” subfolder, and then display the folder search path.

(Make sure you preserve the folders that were already in the search path.)

A11: Change the command prompt to include the time, the words “Hello World” and the ‘>’ character (to demonstrate this on the screen, you might need to *temporarily* alter the setting so that the lines from the batch script file *are* displayed to the screen as they are processed.)

A12: Create a new command window, with red coloured text and green background (to do this, you will need two commands on the same line; one is CMD – type ‘CMD /?’ for help; the other command is in the HELP list.)

A13: Create another new command window, with blue coloured text and a bright white background, and with a prompt that includes the Windows version number.

A14: List all the *folders* (not files) in C:\WINDOWS\System32, (or 64-bit equivalent) sorted into alphabetical order – output the listing to a file called “Batch Script File Output Data.txt” in the “Output” subfolder.

A15: List all *text* files whose names are up to *seven characters long* on the *whole* C: drive – make the listing output in *wide* format – the listing output must be *appended* to the end of “Batch Script File Output Data.txt”

A16: Delete folder “My Batch Script File Assignment”, together with all subfolders and their contents.

A17: Output to the screen the configuration information relating to your network settings.

A18 Create a local user called “Bob”, then create a local group called “Awesome Users” and add Bob to it.

A19 Delete the group “Awesome Users” and delete the user “Bob”.

A20 Create a task to be scheduled at 10 pm every Sunday that will check the C disk for errors and write the results to a file called “chkdskResults.txt” on the desktop.