Tasks for Question 2: 25 marks

Submission: You must include the bash script in your tar.gz file for submission. More files can be included, but these are the minimum.

Your task is create a bash shell script that removes comments and blank lines from another shell script, leaving only the commands.

- You are provided and example shell script samplebash.sh
- Remember comments start with a #) and can be at the start of a line or the # can be on a line after a command.
- Assume that if a # is used *in* a command (an echo or if statement for example) that there will be no comment also on that line. See the example samplebash.sh for clarification.
- Assume that the *shebang* (#!/bin/bash) is the first line of the script and never contains a comment.

Your tasks for this assignment:

- 1. Write a bash script called userid_q2.sh where userid is your student ID. The script takes two arguments, an input file (e.g. samplebash.sh and an output file.
 - Verify that two arguments are provided to the script, otherwise exit (2 marks)
 - Verify that the input file exists and can be read by the script, otherwise exit (2 marks).
 - If the output file aleady exists, and is writable by the user, the script should ask the user if it is OK to overwrite the output file. The user can respond with y, Y, n, N. If any other response is given, the script should ask again until a valid response is received. (6 marks)
 - As part of the previous requirement, you should use a case statement. (2 marks for using case)
 - The script should remove all comments from the input script and write the script without comments to the output file. The script should not affect commands that contain the #. (8 marks)

- The script should remove all blank lines from the input script. (2 marks)
- The script should make the resulting output script executable by the owner. (1 mark)
- 2. Your script should contain comments which explain the code for the reader. (2 marks)

Notes:

- An example output from a sample solution is included. However, your status messages may be customized yourself
- Commands used in the script must be standard Linux utilities as described in the course.

END OF QUESTION 2