Assignment 3 – Advanced Bash Scripts
Due: Wednesday March 27, 2019 at 11.59 pm

Exploring Advanced Bash Scripts *(For full grades add comments to your scripts)*

1. What is the *sh command* used for? Explore and explain the use of the (-n) and the (-v) options. [3 marks]

2. Develop the following script: [15 marks]

   A. Add
   B. Subtract
   C. Division
   D. Multiplication
   E. Exit

   - If the user enters A:
     Prompt them to enter two values and their addition, let them know if the answer is incorrect. Show the correct answer.
   - If the user enters B:
     prompt them to enter two values and their subtraction, let them know if the answer is incorrect. Show the correct answer.
   - If the user enters C:
     Prompt them to enter two values and their Division, let them know if the answer is incorrect. Show the correct answer.
     NOTE: Show an error if the second number is ZERO. Show the menu again.
   - If the user enters D:
     Prompt them to enter two values and their multiplication, let them know if the answer is incorrect. Show the correct answer.
   - If they enter E: exit from the loop (End the script.)

     The script should work with whole numbers only.

   - Add the a function to perform the operation of each menu option, i.e., a function to find addition,…

   - Modify this program to use cases, use the tput command to nicely format the menu.

3. Develop a script createFile.sh to create a new file under the current working directory. The script should accept one argument (the new file name). Show an error if the user forgets to include the argument. In your script use a function called createNewFile to create the file. [5 marks]

4. Develop a script to keep asking the user enter the name David, if that is "DAVID", "David" or "david" print correct name, otherwise re-prompt them to enter their name. In your script use a function called *IsNameCorrect.* [5 marks]