CS5107 – Assignment 1 (20 marks)

Instructions:

a. Try to do the complete assignment by yourself. You should not get help from your peers.
b. You may refer to the earlier scripts from the previous class.
c. Do not open web browser or check phones while solving the assignment. You should only open the browser to download and submit the assignment/scripts. d. Violating the above instructions will result in achieving zero marks in the assignment. e. Happy scripting!

1. Write a script named ***num_loop.sh*** that loops through every number 1 through 20 and prints each number to standard output. The script should also conditionally print **I'm big!** for every number larger than 10. (**3 marks**)
2. Write a shell script called ***my_folder.sh*** that takes in two arguments: your name (e.g. alex) and your name with the .txt ending (e.g. alex.txt). The script should call a function that creates a folder by the name of the first argument (e.g. ayelet) and then create a file inside by the name of the second argument (e.g. alex.txt). For my name, my function would create a folder named ***alex*** and a file named ***alex.txt*** inside of ***alex*** directory. (**5 marks**)
3. Write a shell script called file ***checker.sh*** that checks if a file exists or not. The script takes in a file name as an argument and runs **cat** on that file. The script should then check the exit code of the **cat** command to determine if the file exists or not. If the file exists, the script should print ***File exists!***. If the file does not exist, the script should print ***File does not exist***!. (**4 marks**)
4. Write a shell script called ***timely_greeting.sh*** that greets you based on the current time. The script should call the date command, extract the current hour (look into using %H) and then print the following greeting based on the time. (**4 marks**) • If it is between 5AM (05:00) and 12PM (12:00): Good morning!
   • If it is between 12PM (12:00) and 6PM (18:00): Good afternoon!
   • If it is between 6PM (18:00) and 5AM (5:00): Good night!
5. Write a script named ***capture.sh*** to capture and print the number of parameters from the command line. Also create a loop to print all the parameters. (**4 marks**)