

**Addis Ababa University**  
**College of Natural Sciences**  
**Department of Computer Science**

*Submission deadline - Tuesday June. 18, 2024 before 4:00PM*  
*Copy pasting a code from any source results in a very poor mark.*

*Write one shell script files for each question total of 3 files, add your name and ID inside the source code at the top as comment in each file, compress the resulting three shell files in one ZIP/RAR file and submit it in soft copy to [steferi87@gmail.com](mailto:steferi87@gmail.com)*

Group Assignment (Maximum of 5 members) of *Network and System Administration* - CoSc3212 (20%)

1. Write a Linux shell script that displays a menu with numbered options. When the user selects a number, the script should execute the command in the terminal for the corresponding tasks (5 pts)
  1. Current date and time
  2. Hostname information
  3. Show working terminal.
  4. File system disk space usage.
  5. Free and used memory.
  6. System uptime and load
  7. Currently logged-in users
  8. Show who is currently logged in
  9. show user and groups (UID and GID) of the current user
  10. show Calendar
2. Write a shell script that performs automatic backups of the necessary files every Friday night at 10:00PM (7pts)
3. Write a Linux shell script that asks a user to select a shape to print and no of valid lines to make selected shape and print the shape to screen with “\*”. (8 Pts)

The shapes are.

1. Equilateral Triangle
2. Diamond

*Note for All: For each of your program add a good user prompt, proper input validations and readable and neat output display formats.*