

Mirpur University of Science & Technology, MUST Mirpur AJ&K <u>Department of Software Engineering</u>

Assignment

Subject: Cloud Computing **Task:** Task Automation

Due Date: 22 Feb 2023 Marks: 20

Guidelines for the submission of assignment.

You must have to follow these guidelines for the submission of assignment.

- You must present your running work to me and defend your viva. The last day to present your assignment is Date 22, Feb 2023 for section B and Date 23, Feb 2023 for section B.
- 2. **You must read** the academic dishonesty topic in the introductory lecture before starting assignment.
- 3. No queries regarding the **due date** and **Late submission** will not be marked.
- 4. Creativity and efficient programming will result in bonus marks.
- 5. The assignment is targeted at the **CLO 2 (Course Leaning Outcome)** and will be graded as **rubric** provided on page 2.



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ASSESSMENT RUBRIC

	Unsatisfactory 0	Satisfactory 1	Good 2	Excellent 3
Delivery	Completed < 50%	Completed	Completed	Completed 100%
	of the work or	between 50-70%	between 70-90% of	of the work. On
	undelivered on	of the work. On	the work. On time	time
	time	time		
Document	Poor use of space	White space	Good use of white	Excellent use of
Standards	(indentation, blank	makes program	space. Organized	white space.
	lines). Disorganized	easy to read.	work.	Creatively
	and messy	Organized work.		organized work.
Runtime x 2	Does not execute	Executes without	Executes without	Executes without
	due to errors. User	errors. User	errors. User	errors excellent
	prompts are	prompts contain	prompts are	user prompts,
	misleading or non-	little information,	understandable,	good use of
	existent.	poor design.	minimum use of	symbols, spacing
			spacing in output.	in output.
Efficiency	A difficult and	A logical solution	Solution is efficient	Solution is
	inefficient solution.	that is easy to	and easy to follow	efficient, easy to
		follow but it is not	(i.e. no confusing	understand, and
		the most efficient.	tricks).	maintain.
Design	Appearance not at	Appearance is fine	Appearance is	Appearance is
	all consistent with	but a little	consistent with the	pleasing to the
	design	inconsistent with	design	and provides
	requirements.	design	requirements.	good user
		requirements.		experience.

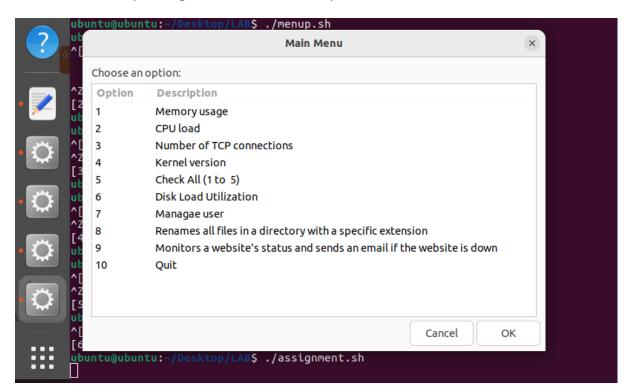


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Questions

There are several ways to automate processes through scripting in Linux. Explore all methods and prepare a brief report.

After that, create a complete multitask automation menu script using zenity and any task automation scripts (bash, cron, ansible, shell etc.). By selecting the option from the main menu corresponding task should be accomplished.



Main Menu

- 1) Memory usage
- 2) CPU load
- 3) Number of TCP connections
- 4) Kernel version
- 5) Check All (1 to 5)
- 6) Disk Load Utilization
- 7) Manage all user: Manage user, will display another multi option list for i) create user ii) delete user, and iii) set password iv) reset password etc



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- 8) Renames all files in a directory with a specific extension
- 9) Monitors a website's status and sends an email if the website is down
- 10) Exit

Main menu should keep popping until user selects option 10 (exit). Your report must include all source code with output.

