Lab Task 5

Requirements

- · Complete all of the tasks defined below.
- · Copy/Pasting (Plagiarism) from your classfellow will not be tolerated and will result in cancellation of your task.
- It is highly recommended that you use Notion.so to create your assignments.
- Each task must be solved in order.
- At the top of each file, following MUST be specified in the following manner:

```
Name: <Full-Name>
RollNumber: <Roll-Number>
Course: <Course-Name>
Date: <Date-of-Submission> (DD/MM/YYYY)
TotalQuestions: <Total-Questions>
AttemptedQuestions: <Number-of-questions-attempted>
---

# Example:
Name: Ali Taqi Wajid
RollNumber: 190792
Course: CY243L - Penetration Testing - Lab
Date: 02/10/2023
TotalQuestions: 3
AttemptedQuestions: 3
---
```

 \Rightarrow This structure has to be followed by each student, if not; it may result in slight deduction of marks from the task/quiz/assignment. Example at: <u>DRIVE</u>

Submission Requirements

You are required to submit a single PDF file with the following naming convention:

```
<course-code>-<batch|section>-<roll_number>.pdf
## Example:
CY102L-F23-A-231521.pdf
```

 \Rightarrow Any other file name will not be considered.

Tasks for Lab-5:

Task - 1:

Create a Bash script that classifies a person's age based on the input provided. This script should:

- 1. Prompt the user to enter their age.
- 2. Check if the age is a valid positive integer.
- 3. If the age is valid, use conditional statements to classify the age as "Child" if it's between 5 and 12, "Teenager" if it's between 13 and 19, "Adult" if it's 20 or older, and "Invalid age" for any other value.
- 4. Display the classification to the user.
- 5. If the age is not a valid positive integer or the input is not a number, display an error message.

Task - 2:

NOTE: For this task to be completed properly, you must first create 5-6 .txt files in the current directory and add random data. You can run the following command to do it:

```
## Generate random files in ./task/:
```

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fName=\$(echo \$RANDOM | md5sum | head -c5); mkdir -p task && cd task; for i in \$(seq 1 10); do lf=\$fName\$i.txt; echo "Creating file: \$11

Create a bash script that does the following:

- Find all the .txt files in the current folder
- Read the content within each file and save the output to final.txt
- Get the total number of characters in the final.txt and the number of lines as well.

Task - 3:

Write a simple bash script that extracts the IP Address of 10 interface by making use of 1p a s command.

Good Luck!

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