Lab Task 6

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
```

⇒ 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:

Lab Task 6

```
<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-6

Task - 1:

Write a Bash script that takes two numbers as input: a starting number (start) and an ending number (end). The script should then use a for loop to generate and display a list of even numbers between the start and end (inclusive).

Task - 2:

Write a Bash script that uses a for loop to calculate and display the sum of all even numbers between 1 and 20. The script should then print the result.

Task - 3:

Create a Bash script that prompts the user to enter a number. Use a while loop to repeatedly ask the user for input until they enter a positive integer. Once a valid input is received, the script should print "Valid input received: [user's input]."

<u>Task - 4:</u>

You have a text file named "grades.txt" containing a list of student roll numbers, their first name, and their grades one entry per line. Write a Bash script that reads the file line by line using a while loop and displays the names of students who scored above 90 (an A grade). Each line in the file is in the format "Name Score."

Appendix:

The following is the content of grades.txt:

```
231501 Muhammad 92
231502 Aisha 85
231503 Ali 75
231504 Fatima 93
231505 Ahmed 78
```

Lab Task 6 2

```
231506 Sara 91
```

- 231507 Hassan 82
- 231508 Khadija 88
- 231509 Omar 89
- 231510 Maryam 94
- 231511 Hussein 97
- 231512 Layla 72
- 231513 Abdullah 89
- 231514 Zainab 91
- 231515 Khalid 84
- 231516 Nour 68
- 231517 Ibrahim 93
- 231518 Rania 76
- 231519 Hamza 70
- 231520 Hana 86
- 231521 Abdullah 90
- 231522 Leila 83
- 231523 Youssef 95
- 231524 Noor 79
- 231525 Mustafa 61
- 231526 Samira 90
- 231527 Bilal 73
- 231528 Zahra 85
- 231529 Mounir 65
- 231530 Lina 75
- 231531 Tariq 60
- 231532 Malak 82
- 231533 Talha 77
- 231534 Amina 68
- 231535 Walid 79
- 231536 Salma 74
- 231537 Yousef 96
- 231538 Amira 89
- 231539 Ahmed 92
- 231540 Abeer 81
- 231541 Karim 70
- 231542 Amal 80
- 231543 Imran 62

Lab Task 6 3

```
231544 Sana 77
231545 Jamal 87
231546 Safa 69
231547 Idris 99
231548 Rima 71
231549 Idris 93
231550 Dana 67
```

Good Luck!

Lab Task 6