National University of Computer and Emerging Sciences, Lahore Campus

THE SENERGIAND TO SERVICE STATES OF	Program: Duration:	PF (Lab) BS (Computer Science) 2 Hours 17th Nov, 2021	Course Code: Semester: Total Marks: Weight	EE 2003 Fall 2021 40 20%
	Section: Exam:	K Midterm Exam	Page(s): Reg. No	2

Important Instructions (Please read them before attempting the exam):

- Submit ONLY code File in this format (Make the File named with your Roll Number e.g., 21L-1234
- Plagiarism will result in F grade in lab.
- · Cell phones, USBs or any other items is not allowed.
- Submission path will be announced soon.
- Submit your files on Google Classroom.

Question 1:

Working as an IT support professional at a Local Bank, you are asked to devise a program that helps grant Home Loans to customers based on the the following factors:

- Criminal Record
- Salary Range
- Employment Duration
- Age Limit

Here is the Bank's loan-policy:

- 1. No Loan will be granted to Customers with any criminal record.
- Grant loans to Customers who have income over 100k.
- 3. For customers having income from 70k to 100k:
 - Grant loans to customers who have more than 1 year of employment.
- 1. For customers having income from 50k to 70k:
- a. Grant loans only to customers who have more than 3 years of employment.
 - 2. For customers having income from 20k to 50k:
- a. Grant loans to customers who have more than 5 years of employment.
 - The customer age must not exceed 30 years.
 - 2. No loans for customers under 20k of income.

Note: solve this using switch.

Question 2:

Implement a program that displays calendar of a 30-day month: For every calendar-entry, following information is required:

- Date of Year
- Week of Month
- Day of Week

Assume that the Week Starts from Sunday and Ends on Saturday.

For Example:

Starting of month is Monday, November 1:

[Day-2 | Week-1 | November-1]

Month ends on Tuesday, November 30:

[Day-3 | Week-5 | November-30]

Question 3:

Implement a function to display each of the following pattern: