

SOFTWARE PROJECT LAB 1

SUBMITTED BY:

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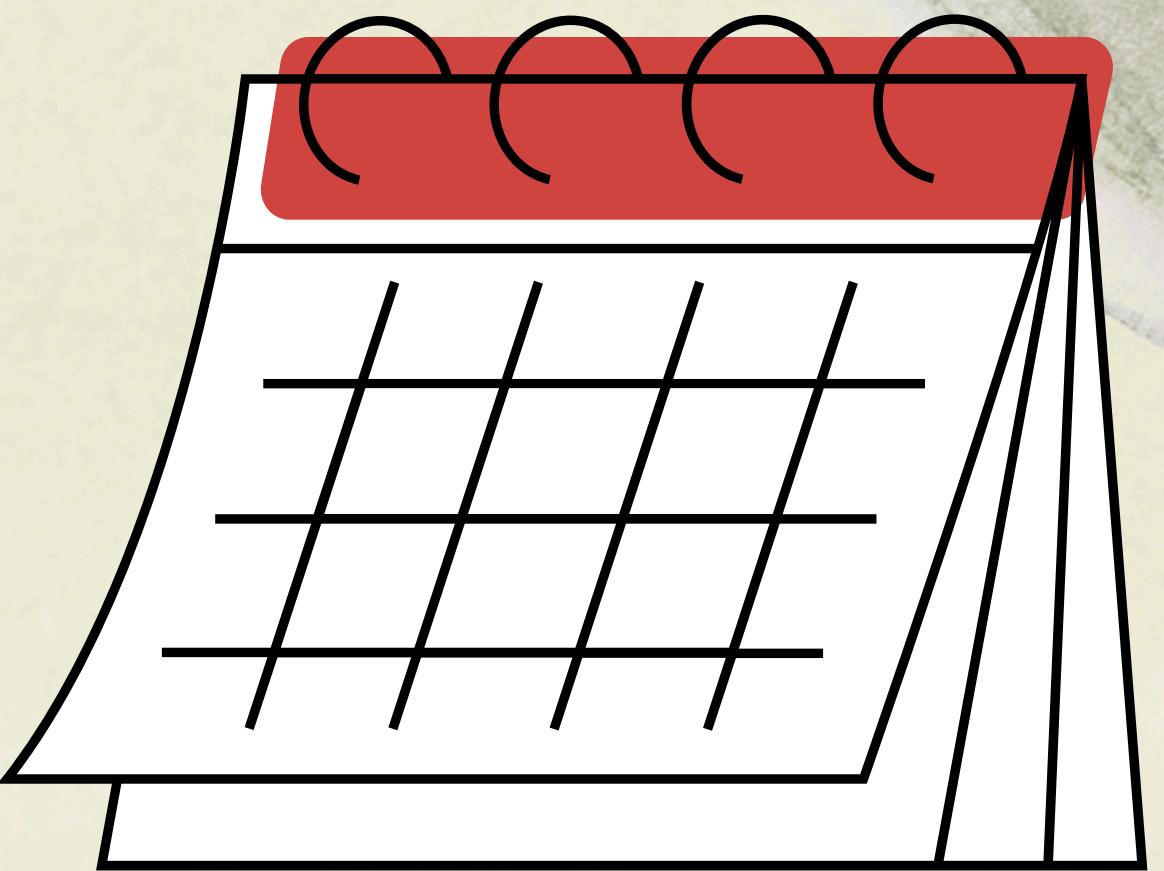
ROLL: BSSE 1648

SUPERVISED BY:

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PROJECT TITLE

DUAL CALENDAR



PROJECT DESCRIPTION

- A comprehensive desktop application that functions as a **dual-view calendar**, displaying dates simultaneously in both the English and Bengali calendars.
- It offers intuitive **bi-directional date searching and conversion**, allowing users to instantly find and translate any event or occasion from one system to the other.
- It incorporates a **reminder system** to help manage schedules effectively across both timelines.
- Works as a basic **daily journal** to keep up with the day.

ALGORITHMS

Linear search algorithm

Searches for events matching a specific date. Linear search with JDN comparison

JDN Conversion

Converts any Gregorian date to a Julian Day Number (continuous day count since 4713 BC)

Zeller's Congruence

Calculates which day of the week (Sunday-Saturday) a date falls on

Hash table

Using date/amount as key to find journal entries of any specific day.

PROGRESS

- Displays current month in Gregorian (English)
- Highlights today's date
- Adding and viewing any upcoming events
- Reminder for today's events
- Bi-directional conversion
- Displays any month after searching

PROGRAM OUTPUT

January 2026 Dual Calendar View

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

PROGRAM OUTPUT

MAIN MENU

1. English to Bengali Date Conversion (E→B)
2. Bengali to English Date Conversion (B→E)
3. Add Event/Reminder
4. View Events for a Specific Date
5. View All Upcoming Events
6. View Today's Reminders
7. Display Monthly Calendar (Dual)
8. Exit

Enter your choice: 8

---English to Bengali Conversion---

Enter day: 1

Enter month (1-12): 1

Enter year: 2026

ENGLISH TO BENGALI CONVERSION

English Date: 1 January, 2026

Bengali Date: 18 পৌষ, 1432

Day of Week: Thursday

--- Add Event/Reminder ---

Enter date for event:

Day: 20

Month (1-12): 1

Year: 2026

Event description: elder sis birthday

Event added successfully!

Date: 20 January, 2026 (7 মাঘ, 1432)

*** All Upcoming Events ***

1. 15 January, 2026 (2 মাঘ, 1432)
sister birthday!

2. 20 January, 2026 (7 মাঘ, 1432)
elder sis birthday

TASK TO BE IMPLEMENTED

- Displaying corresponding Bengali dates
- Searching English month with Bengali date
- Highlighting general holiday
- Adding daily calories intake

CONTACT DETAILS

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GITHUB

<https://github.com/mitimugdho/SPL-1.git>

THANK YOU!