

CALENDAR

SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY

	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			

Calendar Management System

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Outline

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Team Descriptions

- Amaris - Created the account system.
- Destiny - Encrypted and decrypted files using Caesar cipher, and created the welcome page with the menu functions.
- Kaylie - Add and remove a task function.
- Victoria - Edit and search task details.
- Ashley - Created the physical calendar.

System Description

- Greeted by a welcome page with sign up or login.
- After sign up, user will encrypt their information.
- Option to view decrypted information but requires a password.
- View calendar bring the user to the calendar functions which will give different options.
- User can logout with all information saved in the calendar.

Function Descriptions

Functions	Description
goto what;	A goto statement is to jump anywhere that has a function. This jumps to the encryption header file.
void encrypted1(int Encrypt)	Allows the header file of the encryption code to be to calling the function in a different file.
Int firstweekday(int year)	Stores the first ever weekday
Int calendarsetup	Starts the calendar code
Int encrypt(void)	Creates text file with login information and encrypts each letter with a shift of 3
Int encrypt_view(void)	Reads encrypted file and prints it into command prompt
Int decrypt_view(void)	Reads decrypted file and prints it into command prompt
Int okay	Allows for user to go to the calendar

Variable Descriptions

Variables of Sign up and Login option

Variables Name	Description
char fname[120], lname[120], username[120], password[120];	Used to create an account
char user[120], pass[120];	Used to help the user login
char fileReader[255];	Used to allow the file to be read
char admin;	Used to understand if it is an admin account or not
FILE * accountInfoPointer;	Pointer for the file

Variables of the encryption and decryption option

Variables Name	Description
FILE *fp1, *fp2;	Creates the file pointer to read the file and create new one.
char ch, en;	ch represents the character the program is reading, and en represents its encryption equivalent.

Variable Descriptions (cont.)

char eventEnd[30]	Writes in event end time
char newName[255]	Scans user input for title/text file
Char newFile[255]	Renames selected file name to user input
Char eventDescription[255]	Edits event description
Char newReminder[255]	Edits event reminder
Char string1[30]	Searches duration
Char string2[30]	Searches start time
Char string3[30]	Searches end time
Char *months[]	Array of the names of the months
Int year	Variable for the current year
Int month	Puts months into numbers for listing
Int d	Gets the first ever day.
Int day	Lists all the numbered days of the month
Int daysinmonth	Stores the total days of each month
Int monthday	Connects the number of days to their respective month
Int weekday	Splits days into weeks
Int startday	Has each month start on the correct weekday

Variables of the calendar option

char durationTime[255];	Allows writing for duration
FILE*fp=NULL;	Creates file pointer
Char eventNote[255]	Writes in event description
char fName[225];	Scans user title; allows for creation of name
char fNameFile[255];	Creates user title with .txt; makes it a text file
char eventStart[30];	Writes in event start
char reminder[255];	Scans user input for reminder
char eventReminder[255];	Writes in event reminder

Figures

```
> ./main
1: print calendar
2. add note
3. delete note
4. edit or search note
5. Logout
enter your choice: 4
Please enter the file name:
Okay
Please select one of the following options.
1. Edit Title
2. Edit Duration
3. Edit Start
4. Edit End
5. Edit Description
6. Edit Reminders
7. Search Title
8. Search Duration
9. Search Start
10. Search End
Number: █
```

Figure 1. Figure shows the calendar menu and edit options

```
:::::::Welcome to Calendar!:::::::

Please choose one of the following:

1. Sign up
2. Login
Option: █
```

Figure 2. Figure shows welcome page.

```
:::::::Encrypt:::::::

Select One of the Following:

1. Encrypt
2. View The Encrypted File
3. View The Decrypted File
4. View calendar

Enter Your Choice: █
```

Figure 3. Figure shows encrypt and decrypt page.

References

Abdullahi, Mahmud S. "C- Programming Full Project Documentation." *Www.Academia.Edu*, www.academia.edu/34215145/C_Programming_Full_Project_Documentation. Accessed 5 Dec. 2020.

"Basics of Global Variables in C Programming." *Dummies*, www.dummies.com/programming/c/basics-of-global-variables-in-c-programming/. Accessed 5 Dec. 2020.

"C Exercises: Encrypt a Text File." *W3resource*, www.w3resource.com/c-programming-exercises/file-handling/c-file-handling-exercise-13.php. Accessed 5 Dec. 2020.

"C Program to Append Content of One Text File to Another." *GeeksforGeeks*, 26 June 2020, www.geeksforgeeks.org/c-program-to-append-content-of-one-text-file-to-another/. Accessed 5 Dec. 2020.

"C Program to Encrypt and Decrypt Files." *Codecracker.com*, codecracker.com/c/program/c-program-encrypt-file.htm. Accessed 5 Dec. 2020.

"Debasree888/Calendar-in-c." *GitHub*, github.com/debasree888/calendar-in-c/blob/master/Calendar-in-C-master/main.c. Accessed 5 Dec. 2020.

"Do...While Loop in C - Tutorialspoint." *Tutorialspoint.com*, 2019, www.tutorialspoint.com/cprogramming/c_do_while_loop.htm.

"Input - What Is EOF in the C Programming Language?" *Stack Overflow*, stackoverflow.com/questions/1782080/what-is-eof-in-the-c-programming-language. Accessed 5 Dec. 2020.

"(PDF) C-PROGRAMMING-REPORT, AIRLINE RESERVATION SYSTEM." *ResearchGate*, www.researchgate.net/publication/337195393_C-PROGRAMMING-REPORT_AIRLINE_RESERVATION_SYSTEM. Accessed 5 Dec. 2020.

teach show. "How to Encrypt Text File Using C Language Program." *YouTube*, 13 July 2017, www.youtube.com/watch?v=8Aiy1q1SsqA&feature=emb_title. Accessed 5 Dec. 2020.

References (cont.)

- "Basics of Files in C Programming." *Dummies*, www.dummies.com/programming/c/basics-of-files-in-c-programming/.
- "Bibeknam/Programming-Techniques." *GitHub*, github.com/Bibeknam/programming-techniques/blob/master/Calendar/calendar.c. Accessed 5 Dec. 2020.
- "C - File Handling - Read and Write Multiple Data - C Programming - DYclassroom | Have Fun Learning :-)." *Dyclassroom.com*, dyclassroom.com/c/c-file-handling-read-and-write-multiple-data. Accessed 5 Dec. 2020.
- "C Library Function - Remove() - Tutorialspoint." www.tutorialspoint.com, www.tutorialspoint.com/c_standard_library/c_function_remove.htm.
- "C Library Function - Rename() - Tutorialspoint." www.tutorialspoint.com, www.tutorialspoint.com/c_standard_library/c_function_rename.htm.
- "How to Create a Custom Header File in C." *Dummies*, www.dummies.com/programming/c/how-to-create-a-custom-header-file-in-c/. Accessed 5 Dec. 2020.
- "Program To Encrypt and Decrypt in C (Text Files)." *CodingAlpha*, 23 Nov. 2015, www.codingalpha.com/file-handling-code-to-encrypt-and-decrypt-c-program-text-files/. Accessed 5 Dec. 2020.
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