Expense Tracker – project report

Project Title: *Expense Tracker using C Programming*:

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Course: B.TECH CSE

Subject: C Language

ABSTRACT

This project implements a Fitness Tracker in C programming. The system allows users to log, view, search, update, and delete daily fitness activities, including steps walked, distance covered, calories burned, and workout duration. It also provides weekly or monthly summaries to help users monitor their health. The project demonstrates modular programming, file handling, and user interaction, providing a fully functional console application suitable for everyday fitness tracking.

PROBLEM DEFINITION

Keeping track of daily fitness activities is essential for maintaining a healthy lifestyle. Many users need a **simple and automated way** to record daily steps, calories, and workouts. The **Fitness Tracker** solves this problem by providing:

- Easy data entry for daily activities

- Quick search for specific dates

- Weekly/monthly summaries

- Options to update or delete incorrect records

The system ensures accuracy, modularity, and a smooth user experience through **console-based interaction**.

SYSTEM DESIGN

Algorithm (Step-by-Step)

1. Start Program

2. Display Main Menu:

3. 1. Add Activity

4. 2. View All Activities

5. 3. Search Activity by Date

6. 4. Weekly / Monthly Summary

7. 5. Update Activity

8. 6. Delete Activity

9. 7. Exit

10.   Get user choice

11.   Execute function based on choice:

   o Add Activity → append data to file

   o View Activities → read and display all data

   o Search → display activity for given date

   o Summary → calculate totals and averages

   o Update → modify a record

   o Delete → remove a record

   o Exit → terminate program

12.   Repeat menu until exit

13.   End Program

FLOWCHART

```
        START
          |
     Display Menu
          |
     Get User Choice
       /   |   \
      1    2    3 ... 7
    (Add) (View) (Search/Update/Delete/Summary)
       \   |   /
        Repeat Menu
          |
         EXIT
```