



PROJECT NAME : STUDY PLANNER

PROJECT REPORT

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Study Planner

A simple and effective command-line tool to help students plan, track, and organize daily study tasks.

Project Overview

The Study Planner is a Python-based program that allows students to manage their daily study schedule.

It helps you add tasks, track progress, calculate total study time, and prioritize important topics.

This project applies concepts learned in Introduction to Problem Solving & Programming (Python) such as:

1. Lists
2. Functions
3. Conditional statements
4. Loops
5. Modular program design

Objectives / Problem the Project Solves

Students often struggle with:

- Managing multiple study tasks
- Prioritizing high-importance topics
- Monitoring total planned study time
- Tracking completed and pending tasks

This program solves these issues with a simple terminal-based planner.

Features

- *Add new study tasks
- *View all tasks in a clean list
- *Mark tasks as completed
- *Delete tasks
- *Calculate total study time
- *View high-priority tasks
- *All data stored in Python lists (no external files)

Concepts Used

- Lists of lists
- User-defined functions
- While Loops
- Conditional statements
- Modular design
- Top-Down development approach

ALGORITHM

1. **START**
2. Create an empty list called **tasks**
3. Display the main menu with the following options:
 - Add Task
 - View Tasks
 - Mark Task as Completed
 - Delete Task
 - Total Study Time
 - Show High Priority Tasks
 - Exit
4. **READ** user choice
5. **IF** choice = 1
 - Call **addtask()**
6. **ELSE IF** choice = 2
 - Call **viewtasks()**
7. **ELSE IF** choice = 3
 - Call **updatetask()**
8. **ELSE IF** choice = 4
 - Call **deletetask()**
9. **ELSE IF** choice = 5
 - Call **totalstudytime()**
10. **ELSE IF** choice = 6
 - Call **highestpriority()**
11. **ELSE IF** choice = 7
 - Exit the program
12. Repeat steps 3–11 until user chooses Exit
13. **STOP**

Testing

Tested with:

- **Multiple task entries**
- **Empty lists**
- **Completing tasks**
- **Deleting tasks**
- **High/Medium/Low priority filters**
- **Summation of total study time**

All features working successfully.

Conclusion

This project effectively demonstrates:

- **Problem-solving using Python**
- **Modular programming**
- **Lists and iteration**
- **Building a real-world usable application**

The Study Planner helps students stay organized, prioritize important topics, and maintain a productive study routine.