**PART 1: Identify the Problem**

**Problem Description: Reminder System:**

* In today's hectic environment, people frequently find it difficult to remember crucial assignments, due dates, and appointments. The issue I want to solve is the absence of an effective and user-friendly reminder system that may assist users in efficiently managing their time. Because users frequently rely on several platforms and devices to manage their calendars, this problem is especially pertinent to cloud computing.
* Using Python to create a reminder system that enables users to schedule, manage, and receive reminders for tasks and events is the suggested approach. Users will be able to set reminders with precise dates and times, classify them (e.g., urgent, work, or personal), and get notifications by email or a straightforward command-line alert thanks to the system. By making sure that crucial activities are not missed, this application will improve productivity in addition to helping users keep organized.

**Relevance to Cloud Infrastructure:**

* The reminder system may be expanded to use cloud infrastructure for improved functionality, even if its first implementation is a local application. For example, users may be able to retrieve their reminders from a variety of devices if they are kept in a cloud database. Additionally, this would make it possible for functions like synchronization, reminder sharing, and cross-platform notification receiving.

**Learning Experience:**

* Python programming expertise will be gained from working on this project, especially in areas like task scheduling, interacting with APIs, and handling user input. Best practices for creating intuitive command-line interfaces and managing time-based events will also be covered. Given that it calls for a solid grasp of time management and notification systems, I expect the project to be relatively difficult.

**Libraries and Tools:**

* Datetime: For managing dates and times
* Plyer: For provide timely reminder to user

**Value of the work:**

* Creating this reminder system will provide you with invaluable experience with file management, human interaction, and Python programming. Additionally, it will lay the groundwork for comprehending how to incorporate cloud services into apps, which is an essential cloud computing ability.