בס"ד

**פרויקט-תרגיל בקורס הנדסת תוכנה**

**מערכת ראשית – מכשיר טלפון**

**קבוצה מספר 6:   
יונתן גולן 222222222  
שלומי עזרא 333333333  
יובל וינטרוב 313471518   
נועם רהט 205918360  
נתנאל דניאל 209234392**

TelephoneBook  
  
  
Calendar  
  
Event  
  
EventWithContact  
  
EventWithoutContact  
  
MediaApp  
  
SMS  
  
Chat  
  
PhoneSystem:  
It's better to implement this functionality using classes:

1. **Modularity and Encapsulation**: Implementing the phone system functionality using classes allows for better organization and separation of concerns. Each class (**TelephoneBook**, **Calendar**, **SMS**, **MediaApp**) can encapsulate its own functionality, making it easier to understand, maintain, and modify.
2. **Code Reusability**: By implementing separate classes for different features (telephone book, calendar, SMS, media app), you can reuse these classes in other parts of your code or in other projects. This promotes code reuse and reduces code duplication.
3. **Abstraction and Information Hiding**: Classes provide a way to abstract away the implementation details and expose only the necessary functionality through well-defined interfaces. Other parts of the code can interact with these classes using their public methods, without needing to know the internal implementation details.
4. **Ease of Testing**: With separate classes, you can write unit tests for each class individually, ensuring that each component functions correctly. This allows for easier debugging and testing of specific functionalities without affecting the entire system.
5. **Scalability**: If you need to add or modify features in the phone system, having separate classes makes it easier to extend or modify specific functionalities without impacting the entire system. It promotes a more