Here is an example of how to run the program/ how to respond to each prompt

Advanced Process Manager

1. Create Process

2. List Processes

3. Terminate Process

4. Create Thread

5. IPC Operations

6. Synchronization

7. Exit

Enter your choice: 1

Enter the command for the process: notepad.exe

Process started successfully.

Advanced Process Manager

1. Create Process

2. List Processes

3. Terminate Process

4. Create Thread

5. IPC Operations

6. Synchronization

7. Exit

Enter your choice: 2

PID | Name | Status

1234 | notepad.exe | running

5678 | python.exe | running

Advanced Process Manager

1. Create Process

2. List Processes

3. Terminate Process

4. Create Thread

5. IPC Operations

6. Synchronization

7. Exit

Enter your choice: 3

Enter the PID to terminate: 1234

Process 1234 terminated.

Advanced Process Manager

1. Create Process

2. List Processes

3. Terminate Process

4. Create Thread

5. IPC Operations

6. Synchronization

7. Exit

Enter your choice: 4

Thread running

Thread running

Advanced Process Manager

1. Create Process

2. List Processes

3. Terminate Process

4. Create Thread

5. IPC Operations

6. Synchronization

7. Exit

Enter your choice: 5

Received data: Hello from the IPC process!

Advanced Process Manager

1. Create Process

2. List Processes

3. Terminate Process

4. Create Thread

5. IPC Operations

6. Synchronization

7. Exit

Enter your choice: 6

Synchronized function running

Synchronized function running

Advanced Process Manager

1. Create Process

2. List Processes

3. Terminate Process

4. Create Thread

5. IPC Operations

6. Synchronization

7. Exit

Enter your choice: 7