OPERATING SYSTEM PRACTICAL MANUAL

PROGRAM 1: Write a program to give a solution to the producer-consumer problem using shared memory.

Code:

```python
import threading
import time
CAPACITY = 10
buffer = [-1 for i in range(CAPACITY)]
in_index = 0
out_index = 0
mutex = threading.Semaphore()
empty = threading.Semaphore(CAPACITY)
full = threading.Semaphore(0)
class Producer(threading.Thread):
    def run(self):
        global CAPACITY, buffer, in_index, out_index
        global mutex, empty, full
        items_produced = 0
        counter = 0
        while items_produced < 20:
            empty.acquire()
            mutex.acquire()
            counter += 1
```

[Operating System Practical Manual](#)

DP Hallahan

Operating System Practical Manual:

This book delves into Operating System Practical Manual. Operating System Practical Manual is a crucial topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Operating System Practical Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

   - Chapter 1: Introduction to Operating System Practical Manual
   - Chapter 2: Essential Elements of Operating System Practical Manual
   - Chapter 3: Operating System Practical Manual in Everyday Life
   - Chapter 4: Operating System Practical Manual in Specific Contexts
   - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Operating System Practical Manual. This chapter will explore what Operating System Practical Manual is, why Operating System Practical Manual is vital, and how to effectively learn about Operating System Practical Manual.

3. In chapter 2, the author will delve into the foundational concepts of Operating System Practical Manual. The second chapter will elucidate the essential principles that must be understood to grasp Operating System Practical Manual in its entirety.

4. In chapter 3, the author will examine the practical applications of Operating System Practical Manual in daily life. The third chapter will showcase real-world examples of how Operating System Practical Manual can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Operating System Practical Manual in specific contexts. This chapter will explore how Operating System Practical Manual is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Operating System Practical Manual. This chapter will summarize the key points that have been discussed throughout the book.

   This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Operating System Practical Manual.

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