

```
from swarms.prompts.prompt import Prompt
```

```
# Example 1: Initializing a Financial Report Prompt
```

```
financial_prompt = Prompt(  
    content="Q1 2024 Earnings Report: Initial Draft", autosave=True  
)
```

```
# Output the initial state of the prompt
```

```
print("\n--- Example 1: Initializing Prompt ---")  
  
print(f"Prompt ID: {financial_prompt.id}")  
  
print(f"Content: {financial_prompt.content}")  
  
print(f"Created At: {financial_prompt.created_at}")  
  
print(f"Edit Count: {financial_prompt.edit_count}")  
  
print(f"History: {financial_prompt.edit_history}")
```

```
# Example 2: Editing a Financial Report Prompt
```

```
financial_prompt.edit_prompt(  
    "Q1 2024 Earnings Report: Updated Revenue Figures"  
)
```

```
# Output the updated state of the prompt
```

```
print("\n--- Example 2: Editing Prompt ---")  
  
print(f"Content after edit: {financial_prompt.content}")  
  
print(f"Edit Count: {financial_prompt.edit_count}")  
  
print(f"History: {financial_prompt.edit_history}")
```

Example 3: Rolling Back to a Previous Version

```
financial_prompt.edit_prompt("Q1 2024 Earnings Report: Final Version")
```

```
financial_prompt.rollback(
```

```
    1
```

```
) # Roll back to the second version (index 1)
```

Output the state after rollback

```
print("\n--- Example 3: Rolling Back ---")
```

```
print(f"Content after rollback: {financial_prompt.content}")
```

```
print(f"Edit Count: {financial_prompt.edit_count}")
```

```
print(f"History: {financial_prompt.edit_history}")
```

Example 4: Handling Invalid Rollback

```
print("\n--- Example 4: Invalid Rollback ---")
```

```
try:
```

```
    financial_prompt.rollback(
```

```
        5
```

```
    ) # Attempt an invalid rollback (out of bounds)
```

```
except IndexError as e:
```

```
    print(f"Error: {e}")
```

Example 5: Preventing Duplicate Edits

```
print("\n--- Example 5: Preventing Duplicate Edits ---")

try:

    financial_prompt.edit_prompt(

        "Q1 2024 Earnings Report: Updated Revenue Figures"

    ) # Duplicate content

except ValueError as e:

    print(f"Error: {e}")
```

Example 6: Retrieving the Prompt Content as a String

```
print("\n--- Example 6: Retrieving Prompt as String ---")

current_content = financial_prompt.get_prompt()

print(f"Current Prompt Content: {current_content}")
```

Example 7: Simulating Financial Report Changes Over Time

```
print("\n--- Example 7: Simulating Changes Over Time ---")

# Initialize a new prompt representing an initial financial report draft

financial_prompt = Prompt(

    content="Q2 2024 Earnings Report: Initial Draft"

)
```

Simulate several updates over time

```
financial_prompt.edit_prompt(

    "Q2 2024 Earnings Report: Updated Forecasts"

)
```

```
financial_prompt.edit_prompt(  
    "Q2 2024 Earnings Report: Revenue Adjustments"  
)  
  
financial_prompt.edit_prompt("Q2 2024 Earnings Report: Final Review")  
  
# Display full history  
  
print(f"Final Content: {financial_prompt.content}")  
  
print(f"Edit Count: {financial_prompt.edit_count}")  
  
print(f"Edit History: {financial_prompt.edit_history}")
```