QUESTION 10: Intelligent Automation

1: Introduction to Intelligent Automation

Intelligent Automation (IA) combines:

• **Automation**: Do repetitive tasks automatically

• Al or scripts: Add decision-making or logic

Task: Design a simple workflow automation (data fetch \rightarrow clean \rightarrow report)

Common tools: Python scripts, RPA (UiPath), Airflow, Cron jobs

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2. Create mock sales data sales.csv:
Date, Product, Quantity, Price
2025-01-01,Soap,5,100
2025-01-02,Shampoo,2,250
2025-01-03,Lotion,,300
Code:
import pandas as pd
# Step 1: Fetch data
df = pd.read_csv('sales.csv')
# Step 2: Clean data
df_cleaned = df.dropna()
# Step 3: Create report
df_cleaned['Total'] = df_cleaned['Quantity'] * df_cleaned['Price']
summary = df_cleaned.groupby('Product')['Total'].sum()
print("Sales Summary Report:")
print(summary)
```

Step 3: Schedule this as a task (optional)

You can schedule this using:

- Windows Task Scheduler
- Python's schedule package
- Airflow (advanced)