Task: 02

Security Policy Review and Enhancement

Task: Review and enhance security policies and procedures for an organization.

CODE:-

```
# Security Policy Review & Enhancement Simulation in Colab
import pandas as pd
# -----
# 1. Sample Security Policies (Dummy Text)
policies = {
   "Access Control Policy": "Users must have unique accounts. Passwords
should be 8 characters long.",
   "Data Protection Policy": "Data should be protected. No mention of
encryption.",
   "Incident Response Policy": "Incidents should be reported, but no
timeline is defined.",
   "Business Continuity Policy": "Backups are maintained, but no RTO/RPO
defined."
}
# -----
# 2. Key Controls to Look For
# -----
controls = [
   "multi-factor authentication",
   "least privilege",
   "encryption",
   "TLS",
   "incident response timeline",
   "RTO",
   "RPO",
   "vendor risk assessment",
   "security awareness training"
# 3. Review Each Policy
review results = []
```

OUTPUT:-

=== Security Policy Review Results ===

	Policy	Found Controls	Missing Controls	Enhancement Suggestion
0	Access Control Policy	None	multi-factor authentication, least privilege,	Update Access Control Policy to include: multi
1	Data Protection Policy	encryption	multi-factor authentication, least privilege,	Update Data Protection Policy to include: mult
2	Incident Response Policy	None	multi-factor authentication, least privilege,	Update Incident Response Policy to include: mu
3	Business Continuity Policy	RTO, RPO	multi-factor authentication, least privilege,	Update Business Continuity Policy to include:

What this does:

- Takes **dummy policies** (you can paste your real text into policies dictionary).
- Scans for required security controls.

- Shows what is **missing**.
- Suggests **enhancements** automatically.

Next Steps (Optional):

- Upload your organization's actual **policy documents (txt, docx, pdf)** into Colab and parse them.
- Expand the controls list to match ISO 27001, NIST CSF, or your compliance framework.
- $\bullet \quad \text{Export the $\tt df$ into } \textbf{Excel/CSV} \ \text{for management reporting}.$