VPN IMPLEMENTATION AND ANALYSIS REPORT

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OBJECTIVE

To study and understand the working of a Virtual Private Network (VPN) by verifying IP address masking, location change, browsing speed comparison, and encryption features.

TOOLS USED

- Android Mobile Phone
- Turbo VPN (Free Version)
- Google Chrome Browser
- whatismyipaddress.com
- speedtest.net

PROCEDURE

1. Checked original IP address with VPN turned OFF using whatismyipaddress.com.
2. Connected to Turbo VPN and selected a server location.
3. Verified that IP address and location changed after enabling VPN.
4. Performed speed test using speedtest.net before and after enabling VPN.
5. Disconnected VPN and confirmed IP returned to original.

OBSERVATIONS

- IP address changed when VPN was enabled.
- Location displayed matched the VPN server location.
- Browsing speed was slightly reduced when VPN was ON.
- After disconnecting VPN, original IP and faster speed were restored.

RESULT

The VPN successfully masked the real IP address and routed internet traffic through a remote server.

CONCLUSION

VPN improves online privacy and security by encrypting internet traffic and hiding the real IP address. However, it may slightly reduce browsing speed due to encryption and server routing.

LIMITATIONS

- Free VPN has limited data usage.
- Speed may vary depending on server load.
- Some websites may restrict VPN connections.