**Write a Research Topic for one of the following Research Points:**

* Block cipher i.e. DES, AES, Blowfish, IDEA
* Application Layer security protocols i.e. PGP, S/MIME, S-HTTP, HTTPS, SET, KERBEROS
* Biometrics
* Hardware Vulnerabilities
* Protection from Internal Threats
* Transport Layer security protocols i.e. SSL, TLS.
* Signature based IDS vs. Heuristic based IDS
* Software Vulnerabilities
* Data Vulnerabilities
* Four types of threat: interception, interruption, modification, and fabrication.
* Protection from External Threats
* Data Confidentiality and attacks
* Data Integrity and attacks
* Data Availability and attacks
* Public Key Cryptography i.e. RSA
* DSA(Digital Signature Algorithm)
* Transient vs. Resident virus.
* Control Against Threat
* Authenticating a user`s identity
* Packet-Filter Firewalls vs. Proxy Firewalls
* Network Layer security protocols i.e. IPSec, VPN.
* PAP - Password Authentication Protocol
* CHAP - Challenge-handshake authentication protocol
* EAP - Extensible Authentication Protocol
* Wired Equivalent Privacy (WEP)

Dr/ Mai Ramadan