**ASSINGMENT-2**

**Submmited**

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**ROLL NO:33**

**Bluetooth**

* **Bluetooth** is a short-range wireless technology standard that is used for exchanging data between fixed and mobile devices over short distances .
* It is mainly used as an alternative to wire connections, to exchange files between nearby portable devices and connect cell phones and music players with wireless headphones.
* In the most widely used mode, transmission power is limited to 2.5 milliwats giving it a very short range of up to 10 metres.

Firewall

* The term ‘Firewall’ actually meant a wall which intended to confine a fire within a line of adjacent buildings.
* . Thus, having a means which could secure the transmission and flow of data was required by many.
* Until the Firewall was introduced, routers performed the same function as it restricted the number of people who could use a particular network.

VPN

* A VPN hides our IP address by letting the network redirect it through a specially configured remote server run by a VPN host.
* This means that if we surf online with a VPN, the VPN server becomes the source of our data.
* This means our Internet Service Provider (ISP) and other third parties cannot see which websites we visit or what data we send and receive online.

Bluetooth firewall and VPN

* Both firewall and VPNs play a crucial role in protecting their user’s privacy.
* Firewall secure user’s devices from several cyber threats like malware,spyware,phishing etc.
* It secures our system’s communication with the internet.
* Firewall prevent suspicious traffic from entering the device.
* When we use a firewall,we can implement our own set of security rules.
* VPN protects our internet connection entirely.
* It hides our actual IP address through an alternate IP address of our desired countries like the US,the uk and others.
* It encrypts the web traffic that allows us to safeguard our online activities from the other unwanted people and cyberattackers.

VPN COMPARED TO FIREWALLS

* Compared to VPN’s we cannot use firewalls to overcome online censorship and access geo-restricted content.
* Their main task is to inspect the incoming and outgoing network traffic.
* Windows devices come with Windows firewall pre-installed .
* when we download and install any new software on our device, we will see a warning message saying a program is trying to access your system.
* we will have to grant permission to complete the installation process. This warning message comes from a firewall.

**What is a VPN firewall?**

* It is a type of firewall that lets you secure our VPN connections against malicious users,including hackers,scammers,identify thieves,etc…
* When we enable a VPN firewall on our official devices, we can connect to our office network securely as a remote worker.
* Both firewalls and VPNs work in their capacities, but they usually do wonders when they work in conjunction.