- > TCP is a reliable connection-oriented service protocol that allows a transfer of data without errors from one machine to another machine on an internet
- > TCP manages flow control & error control

2.UDP

- > 'UDP stands for User Datagram Protocol
- > UDP is an unreliable, connectionless service protocol
- > UDP is used for transmitting speech (audio) or images (video)

3. Internet

- Internet layer is present above the host- to- network layer
- Internet layer holds the entire architecture together
 - > The task of internet layer is to deliver the IP packets to the specified destination
 - > The internet layer defines an official packet format
 - It consists of only one protocol called IP
 - > IP stands for Internet Protocol
 - IP is responsible for transmission of packets(datagrams) from source and destination

4. Host- to- network (data link + physical) layer

- In TCP/IP, below the internet layer is a large gap(void)
- TCP/IP reference model does not specify what happens in that gap, except the host is connected to the network. This region (gap) is called host-to-network layer
- Protocols are not specified in the host- to- network layer
- Host- to- network layer supports the following example networks:
- ▶ 1.ARPANET 2. SATNET 3. Packet radio 4.LAN

Comparison of OSI/ISO and TCP/IP Reference Models

OSI/ISO reference model		TCP/IP reference model
1.OSI/ISO stands for Open Interconnection/ International Organization	Systems Standards	1.TCP/IP stands for Transmission Control Protocol / Internet Protocol
2. OSI/ISO reference model is a seven layered network architecture		2.TCP/IP reference model is a four layered network architecture
3. In OSI/ISO, the transport layer guarantees the delivery of packets		3. In TCP/IP model, the transport layer does not guarantee delivery of packets
4.OSI/ISO model follows vertical approach		4. TCP/IP model follows horizontal approach
5. OSI/ISO model has a separate presentation layer and session layer		5. TCP/IP does not have a separate presentation layer and session layer
6. OSI/ISO model is developed by ISO (International Standard Organization),		6. TCP/IP model is developed by ARPANET (Advanced Research Projects Agency Network)