ABSTRACT
In today’s globalized world, systems, applications and people need to be permanently connected to the internet, a variety of communications networks and several different devices simultaneously. The problem of accessing data in remote areas where wired network is unreachable is solved by Broadband Wireless Network Technology. This technology has brought a drastic change in sharing and communication of data irrespective of distance and location. In this paper we have presented a modern approach towards use of Wi-Fi for the data transmission, the main aim of the research is aimed to provide dual security of the Data to the user in a very limited area and at low cost. Our models are practical because their inputs are easily available on mobile platforms without modifying low-level software or hardware components.

KEYWORDS: Wi-Fi, Data Transmission, Network, Adapter, IP Address.

INTRODUCTION
Data Transmission
Data transmission is the physical transfer of data over point to point or point to multi-point communication channels. Example of such channels are copper wire, optical wire, wireless communication channels, etc.
The data transmission belongs to telecommunication and computer networking application for example routing, switching, and inter process communication.

Figure:

Communication channel
In computer networking a communication channel refer to physical transmission medium such as wire for example CAT-5/6 cable. A channel has a certain capacity for transmitting information, often measured by its bandwidth in Hz or its data rate in bits per second. Communicating data from one location to another requires some form of pathway or medium. These pathways, called communication channels, use two types of media: cable (twisted-pair wire, cable, and fiber-optic cable) and broadcast (microwave,
satellite, radio, and infrared). Cable or wire line media use physical wires of cables to transmit data and information.

**MATERIALS AND METHODS**

**Project**

The aim of project is to transmit data between two computers using Wi-Fi & IP configurations. The project can easily overcome tradition data transmission techniques like use of pen drives, hard drives, disk drives, etc.

There are various techniques to transmit data between two computers like using of bridge cable, Wi-Fi through.

A. **Material**
   1. A Wi-Fi network
   2. Two computers.
   3. Two static IP address.

B. **Methodology**

   Here two Personal Computer are Connected for Data Transmission Using Wi-Fi.

   **Figure:**

   ![Data Transmission through Wi-Fi](image)

C. **Work**

   1. Connect to similar Wi-Fi network on both computer.
   2. Connect both computer with Wi-Fi network.
   3. Open control panel go to Network & Internet option.
   4. Click on Wi-Fi.
   5. Open IP version 4 & click enter any IP address
   6. Save it
   7. Go to network & internet option
   8. & open change adapter setting
   9. Turn on all options
   10. & Save it.

   **Above steps to be followed on 2nd computer also enter IP address of same range.**
Click on change adapter setting & open Wi-Fi network, properties, go to Internet Protocol Version4 and enter IP address.

Go to Network & sharing center and click on “Change Advance Shearing settings” turn on all option available there.

Go to first computer & right click on desired folder click on share with go to specific people.

Select everyone & Add.

Give permission of read & write and shear it.

Go to 2nd computer & open network double click on 1st computer name.
CONCLUSION
Data transmission is the physical transfer of data over point to point or point to multi-point communication channels.
This study led to a positive evaluation of the Wi-Fi networks. The low cost and simplicity of adoption tends to predict an accelerated increase in their use and the transfer rates offered by this type of network is entirely compatible with the necessity of small-scale residential and commercial environments. The aim of project is to transmit data between two computers using Wi-Fi & IP configurations.
With current resources, it is possible to consider the use of wireless network interfaces and wireless personal area networks that will enable great advances in communication between consumer electronic devices. Hence data transmission is possible by using Wi-Fi network.

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Today many data transmission facilities are available like pendrives, cables, etc. But transmission through Wi-Fi is a high end transmission which is more secure, reliable & cost effective technique available.

REFERENCES