## Practical No. 5

Aim: Practical on Wireless and Bluetooth attacks.

## **Lab Environment:**

- 1. Kali Linux as the attacker machine
- 2. Web browser with internet connection
- 3. Administrative privileges

## **Implementation:**

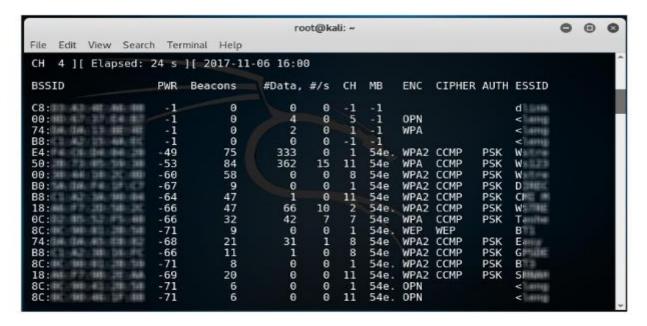
- 1. Log in to kali Linux and launch the command terminal
- 2. First, check if the wireless card is connected or not by using the "iwconfig" command, as shown in figure

```
root@kali: ~
                                                                                                 0 0
             ~# iwconfig
IEEE 802.11bgn
wlan0
                                  ESSID: "Ws123
             Mode:Managed Frequency:2.462 GHz
Bit Rate=39 Mb/s Tx-Power=19 dB
             Retry short limit:7
Encryption key:off
                                           RTS thr:off
                                                              Fragment thr:off
                    Management:off
                                       Signal level=-43 dBm
                                           invalid crypt:0 Rx
9 Invalid misc:229
                                      Rx
                                                                      invalid frag:0
                                   ries:59
la
             no wireless extensions.
eth0
             no wireless extensions.
```

3. Change the wireless interface inti monitor mode using "airmon-ng start wlan0" command with wlan0 as your wireless interface name, as shown in figure

4. use "airodump" to find out the SSID on the interface using the command:

"airodump-ng -write capture wlan0"



The screen will display a list of WI-FI networks as shown in figure

5. Use the following command to capture a 4-way handshake by using airmon-ng to monitor traffic on the target network using the channel and BSSID values

"airodump-ng -c 3--bssid 9C:5C:XX:XX:XX -w.wlan0"

## where

- "-c 3" is used to specify the channel number 3
- 6. Now, wait to capture the handshake packet. Once you have capture a packet, you will see the output similar to figure



- 7. You will see a capture .cap file in your /root location which is a default location
- 8. Now, run this capture file against a wordlist to crack the WPA key