

# IMPLEMENT PACKET SNIFFING USING RALI SOCKETS IN PYTHON.

## AIM:

To capture and display packet details (source, MAC, destination, payload) using python with scapy on windows.

## ALGORITHM:

1. It up the necessary imports from the scapy library.
2. Define a function to handle the capture packets extracting and printing the relevant information.
3. Call Print a message to indicate that the script is listening for a packet.
4. Call the sniff function from scapy passing the packet-call back function.
5. The script will capture a single packet as process it using packet-call back function.

## CODE:

```
from scapy.all import sniff, Ether
def packet_callback(packet):
    if Ether in packet:
        ether = packet[Ether]
        print(f"Source MAC: {ether.src}")
        print(f"Destination MAC: {ether.dst}")
        print(f"Payload: {bytes(packet.payload).hex()[0:100]}")
        print("-"*60)
```

```
print("Listening for a packet.... (press ctrl+c  
to stop)")  
sniff(prn=packet_callback, count=1)
```

## RESULT

Thus a single packet is sniffed & source, destination IP are displayed with payload in windows.

