26/10/24   PRACTICAL 14.

AIM :-

write a code using raw sockets to implement packet sniffing

CODE :-

```
import socket
import os.
def sniff_packets ():
try :
    sniffer = socket. socket (socke. AF_ INET,
            Socket- sock_ RAW, Socket - IPPROTO_I

    Sniffer. bind (("0.0-0.0",0))
    Sniffer. setsockopt (socket. IPPROTO_IP socket
                        IP_ HDRINCC, 1)
    if os. name == "ponix":
    os. system ( "sto if config echo paomisc")
    print (" packet- sniffer is running")

    while True :
        Packet = sniffer. recvfrom (65565)[0]
        print (f " captured Packet : { packet. hex()}
```

```python
    except Exception as e:
        print(f"error : {e}")
    print("Ensure you have root privileges to open
    raw socket")
if __name__ == "main";
sniff_packets()
```

OUTPUT:-

Captured Packet : 45000 3C1 C4 64000400
                    6b1eb c0 28 0 101 c0 28 0
                    102.

RESULT:-

This the program is successfully executed &
output is verified.