Evangelista, John Mikael D.

COM232

ACTIVITY 8

```
SUSPICIOUS_THRESHOLD = 20
simulated_packets = [
    ("192.168.1.20", "192.168.1.1", "HTTPS"),
    ("192.168.1.150", "192.168.1.1", "HTTP"),
("192.168.1.10", "192.168.1.2", "FTP"),
    ("192.168.1.150", "192.168.1.3", "HTTPS"), ("192.168.1.10", "192.168.1.1", "HTTP"),
    ("192.168.1.10", "192.168.1.4", "HTTP"),
    ("192.168.1.10", "192.168.1.1", "HTTP"),
    ("192.168.1.150", "192.168.1.13", "HTTP"),
def analyze_packets(packets):
    print("Analyzing simulated network packets...")
    packet_counts = {}
    for src, dest, proto in packets:
         packet_counts[src] = packet_counts.get(src, 0) + 1
    print("\nPacket counts per source IP:")
    for ip, count in sorted(packet_counts.items()):
         print(f" - {ip}: {count} packets")
    print("\nChecking for suspicious activity...")
    for ip, count in packet_counts.items():
         if count > SUSPICIOUS_THRESHOLD:
             print(f"!!! ALERT: Suspicious activity detected from {ip}. Packets sent: {count}")
if __name__ == "__main ":
    analyze packets(simulated packets)
```

```
PS C:\Users\evangelistajd1\Desktop\PROJECT/& C:\Users\evangelistajd1\AppData\Local\Programs\Python\Python313\python.exe c:\Users\evangelistajd1/Desktop\PROJECT/Act-8.py
Analyzing simulated network packets...

Packet counts per source IP:
- 192.168.1.10: 16 packets
- 192.168.1.150: 20 packets
- 192.168.1.20: 4 packets

Checking for suspicious activity...
```

ACTIVITY 9

```
import sys
from PIL import Image
import piexif
def read exif(path):
    img = Image.open(path)
    exif_dict = piexif.load(img.info.get("exif", b""))
    make = exif_dict['0th'].get(piexif.ImageIFD.Make, b"").decode(errors='ignore')
    model = exif_dict['0th'].get(piexif.ImageIFD.Model, b"").decode(errors='ignore')
    dt = exif_dict['0th'].get(piexif.ImageIFD.DateTime, b"").decode(errors='ignore')
    gps = exif_dict.get('GPS', {})
    print("EXIF Metadata Analysis:")
    print(f"Camera Make: {make}")
    print(f"Camera Model: {model}")
    print(f"Date/Time: {dt}")
    if gps:
        print("GPS tags found in EXIF (raw):")
        print(gps)
        print("No GPS metadata found.")
if __name__ == '__main__':
    if len(sys.argv) < 2:</pre>
        print("Usage: python exif_reader.py image.jpg")
        read_exif(sys.argv[1])
```

```
PS C:\Users\evangelistajd1\Desktop\PROJECT> python Act-9.py Canon_PowerShot_S40.jpg
EXIF Metadata Analysis:
Camera Make: Canon
Camera Model: Canon PowerShot S40
Date/Time: 2003:12:14 12:01:44
No GPS metadata found.
```

