**Assignment no 5 (Group B)**

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Roll no :31 Subject: Risk Assesment Laboratory

**Title:** Design and implement program to detect and report invalid login attempts and malicious activities to embedded device.

**Code :**

import sys

import logging

def main():

# Collect system logs

system\_logs = []

# Identify failed login attempts

failed\_login\_attempts = []

for log in system\_logs:

if log['event\_type'] == 'failed\_login':

failed\_login\_attempts.append(log)

# Report failed login attempts to the embedded device

if failed\_login\_attempts:

logging.error('Failed login attempts detected:')

for attempt in failed\_login\_attempts:

logging.error('Username: %s, IP address: %s', attempt['username'], attempt['ip\_address'])

if \_\_name\_\_ == '\_\_main\_\_':

main()

**Implementation :**

