**ASSIGNMENT 4:**

#include <stdio.h>

#include <string.h>

void simulateBreach(const char \*filename) {

FILE \*inputFile = fopen(filename, "r");

FILE \*outputFile = fopen("compromised\_credentials.txt", "w");

FILE \*reportFile = fopen("vulnerability\_report.txt", "w");

if (!inputFile || !outputFile || !reportFile) {

perror("Error opening file");

return;

}

char line[256];

while (fgets(line, sizeof(line), inputFile)) {

char username[128], password[128];

if (sscanf(line, "%127[^:]:%127[^

]", username, password) == 2) {

fprintf(outputFile, "%s:%s\n", username, password);

fprintf(reportFile, "User: %s, Password: %s\n", username, password);

}

}

fclose(inputFile);

fclose(outputFile);

fclose(reportFile);

}

int main() {

simulateBreach("credentials.txt");

return 0;

}