Secure Programming Final Project Phase -III   **Date: 11/20/2024**

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Test cases:

Compile the code for **logappend.cpp** and **append.exe** file is created.

```
g++ logappend.cpp -o append.exe
```

Follow the below order to enter the details of entry or exit of the people.

```
-K <token> (-E <employee-name> | -G <guest-name>) (-A | -L) [-R <room-id>] <log>"
```


Compile the code for **logread.exe** and read.exe file is created.

```
g++ logread.cpp -o read.exe
```

Follow the below order to enter the details of entry or exit of the people.

```
-K <token> <log>"
```


<u>**Test case 1:**</u>

```
./append.exe -K santosh@123 -E John -A -R 101 log.txt
```

John, who is an Employee, will be stored in log.txt with date and time stamp in room number 101.

```
./read.exe -K santosh@123 log.txt
```

```
Employees in gallery: none
Guests in gallery: none
Room 101: John
```

Test case 2:

```
./append.exe -K santosh@123 -G Ravi -A log.txt
```

Ravi, who is a Guest, will be stored in log.txt with data and time stamp in gallery as room is not mentioned.

```
./read.exe -K santosh@123 log.txt
```

```
Employees in gallery: Ravi
Guests in gallery: none
Room 101: John
```

Test case 3:

Try to give a **name** with special characters or length greater than 50.

It will throw **Invalid name** as error and no entry is added in log.txt

```
./append.exe -K santosh@123 -E Mary@34 -A log.txt
```

```
Invalid name
```

Test case 4:

If you mention -R and don't provide room number,

        or if it is not a number,

        or if it is greater than 10 digits,

 it will throw **Invalid room id**

```
./append.exe -K santosh@123 -E Hari -A -R log.txt
```

```
./append.exe -K santosh@123 -E Hari -A -R 12@3 log.txt
```

```
./append.exe -K santosh@123 -G Sam -A -R 12345678954 log.txt
```

```
PS C:\Users\santo\OneDrive\Documents\Sem-1\Secure Programming\art_gallery_secure_log_manager> ./append.exe -K santosh@123 -E Hari -A -R log.txt
Invalid room id
PS C:\Users\santo\OneDrive\Documents\Sem-1\Secure Programming\art_gallery_secure_log_manager> ./append.exe -K santosh@123 -E Hari -A -R 12@3 log.txt
Invalid room id
PS C:\Users\santo\OneDrive\Documents\Sem-1\Secure Programming\art_gallery_secure_log_manager> ./append.exe -K santosh@123 -E Hari -A -R 1234567894 log.txt
Log entry added.
PS C:\Users\santo\OneDrive\Documents\Sem-1\Secure Programming\art_gallery_secure_log_manager> ./append.exe -K santosh@123 -G Sam -A -R 12345678954 log.txt
Invalid room id
```

Test Case: 5

Try to use other Secure_Token (K) . It will throw Authentication failed.

```
./append.exe -K sharon@123 -E Jake -A log.txt
```

```
Authentication failed
```

Test Case 6:

To record the exit of any existing user, use the following:

Before :

```
Employees in gallery: Ravi
Guests in gallery: none
Room 101: John
Room 1234567894: Hari
```

After :

```
./append.exe -K santosh@123 -E Hari -L -R 1234567894 log.txt
```

```
Employees in gallery: Ravi
Guests in gallery: none
Room 101: John
Room 1234567894: none
```