

Network Security Lab

End Semester Examination

Name: Rahul Mahadevan

Roll no: 21CSM2R14

Reg no: CS21203

I MTech CSIS

Task 2

```
Activities Terminal Apr 26 15:47
rahul@turingmachine-0101-TF: ~/MTech/II Semester/Labs/NS Lab/End Exam/Task 2

rahul@turingmachine-0101-TF:~/MTech/II Semester/Labs/NS Lab/End Exam/Task 2$ java Train
Secure connection is established to Station Master
Enter Arrival Time & Compartment Sequence: 14:30 S1,S2,S3,D1,A1,A2
SHA256 digest: 608de302559b1b4ae6e5e89b274b80013bc9915de74e71eb67c36c835465043

Message Sent to Station Master :
14:30 S1,S2,S3,D1,A1,A2
608de302559b1b4ae6e5e89b274b80013bc9915de74e71eb67c36c835465043
Response from Station Master: Platform Number 2
rahul@turingmachine-0101-TF:~/MTech/II Semester/Labs/NS Lab/End Exam/Task 2$
```

```
Activities Terminal Apr 26 15:47
rahul@turingmachine-0101-TF: ~/MTech/II Semester/Labs/NS Lab/End Exam/Task 2

rahul@turingmachine-0101-TF:~/MTech/II Semester/Labs/NS Lab/End Exam/Task 2$ java StationMaster
Listening on port:3020
Secure connection established from Train
Received Train Time: 14:30
Received Compartment Sequence: S1,S2,S3,D1,A1,A2
Received Hash of message: 608de302559b1b4ae6e5e89b274b80013bc9915de74e71eb67c36c835465043
Computed Hash: 608de302559b1b4ae6e5e89b274b80013bc9915de74e71eb67c36c835465043
Message Integrity is verified, checking platform availability...
Platform No. 2 available
Platform Number 2 is sent to Train

Secure connection is established to Platform

Encrypted Compartment Sequence Sent to Platform :lzv+fGG+Hq1xf7poTuvSujhYXpIIPMvL
Response from Platform: Train Compartment Sequence Received Successfully
Closing connection
rahul@turingmachine-0101-TF:~/MTech/II Semester/Labs/NS Lab/End Exam/Task 2$
```

```
Activities Terminal Apr 26 15:47
rahul@turingmachine-0101-TF: ~/MTech/II Semester/Labs/NS Lab/End Exam/Task 2
rahul@turingmachine-0101-TF: ~/MTech/II Semester/Labs/NS Lab/End Exam/Task 2$ java Platform
Listening on port:3021
Secure connection established from Station Master
Received Message: izv+fGG+Hq1xf7poTuv5ujhYXpiIPMvL
Decrypted Message: 14:30 S1,S2,S3,D1,A1,A2
Train arriving at 14:30
Compartment Sequence: S1,S2,S3,D1,A1,A2
Closing connection
rahul@turingmachine-0101-TF:~/MTech/II Semester/Labs/NS Lab/End Exam/Task 2$
```