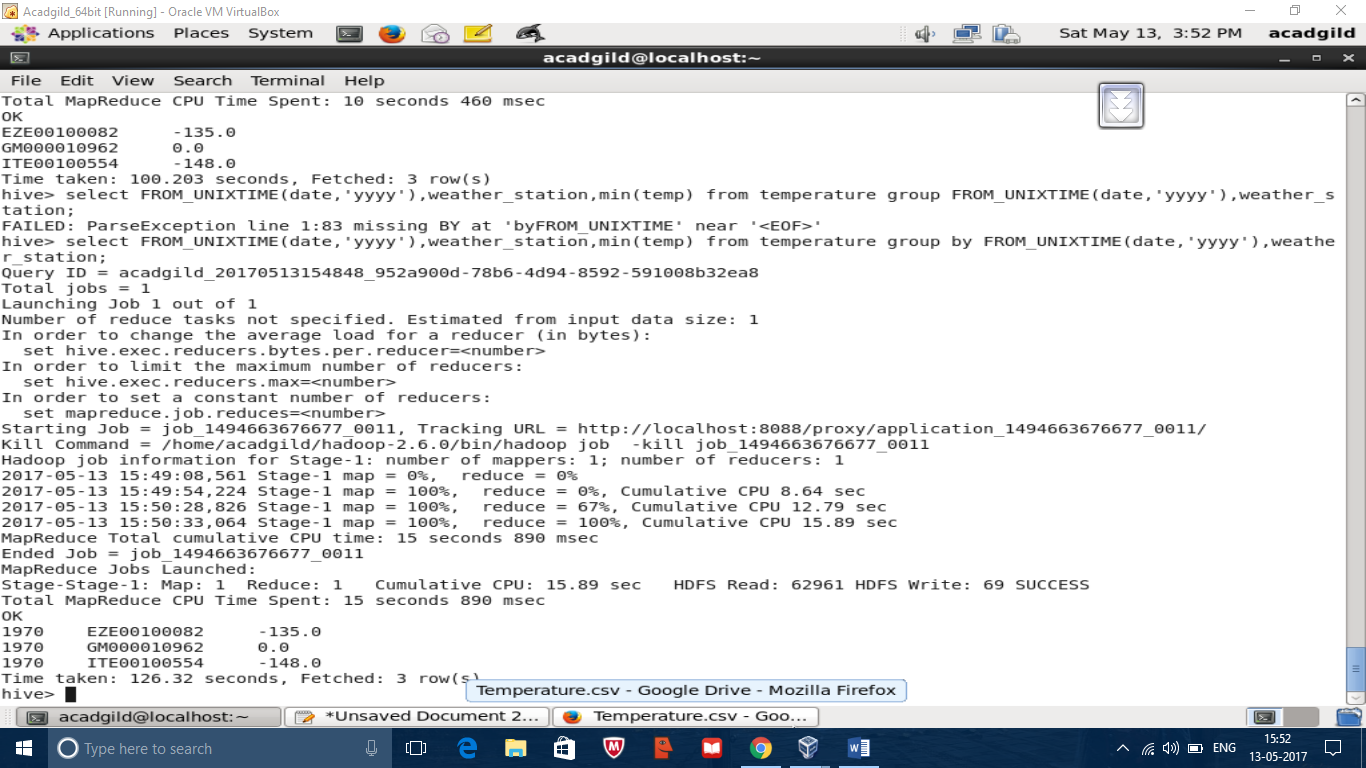
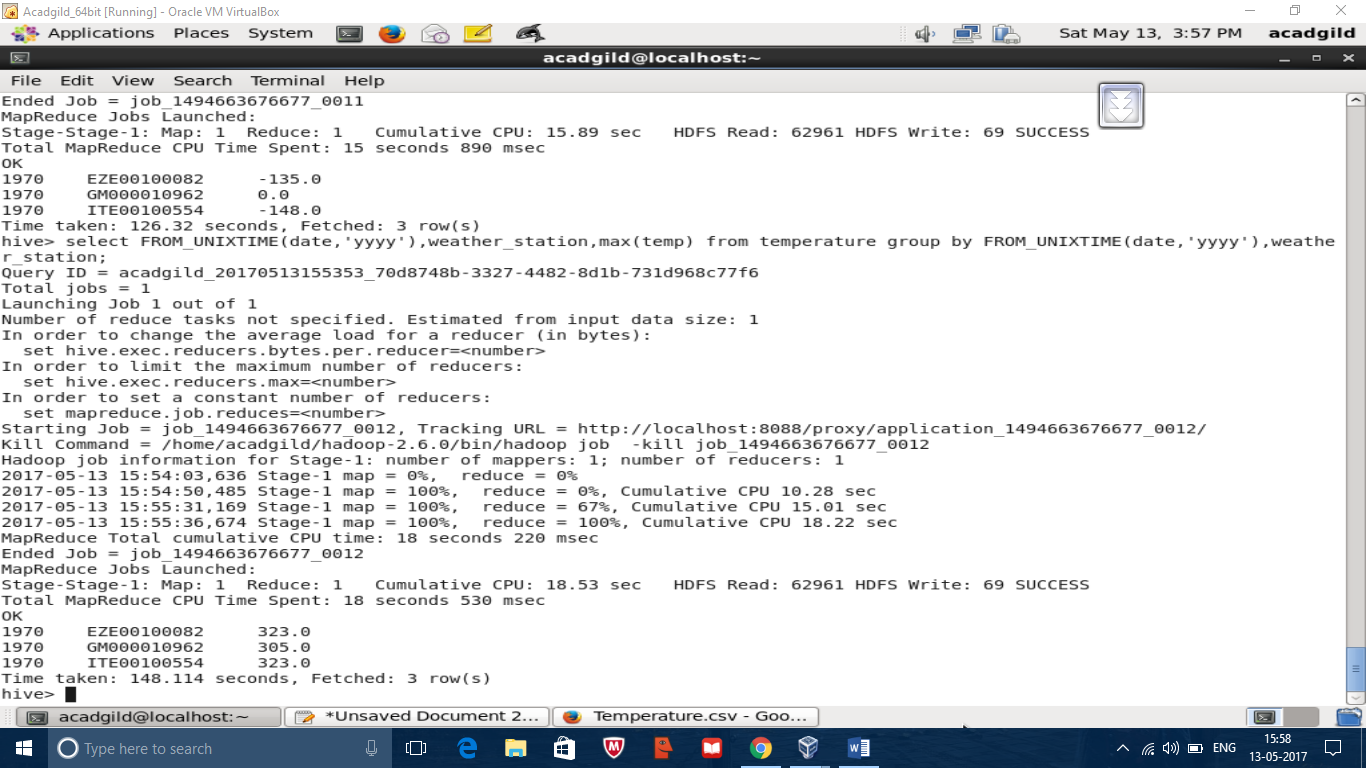
problem 1

output

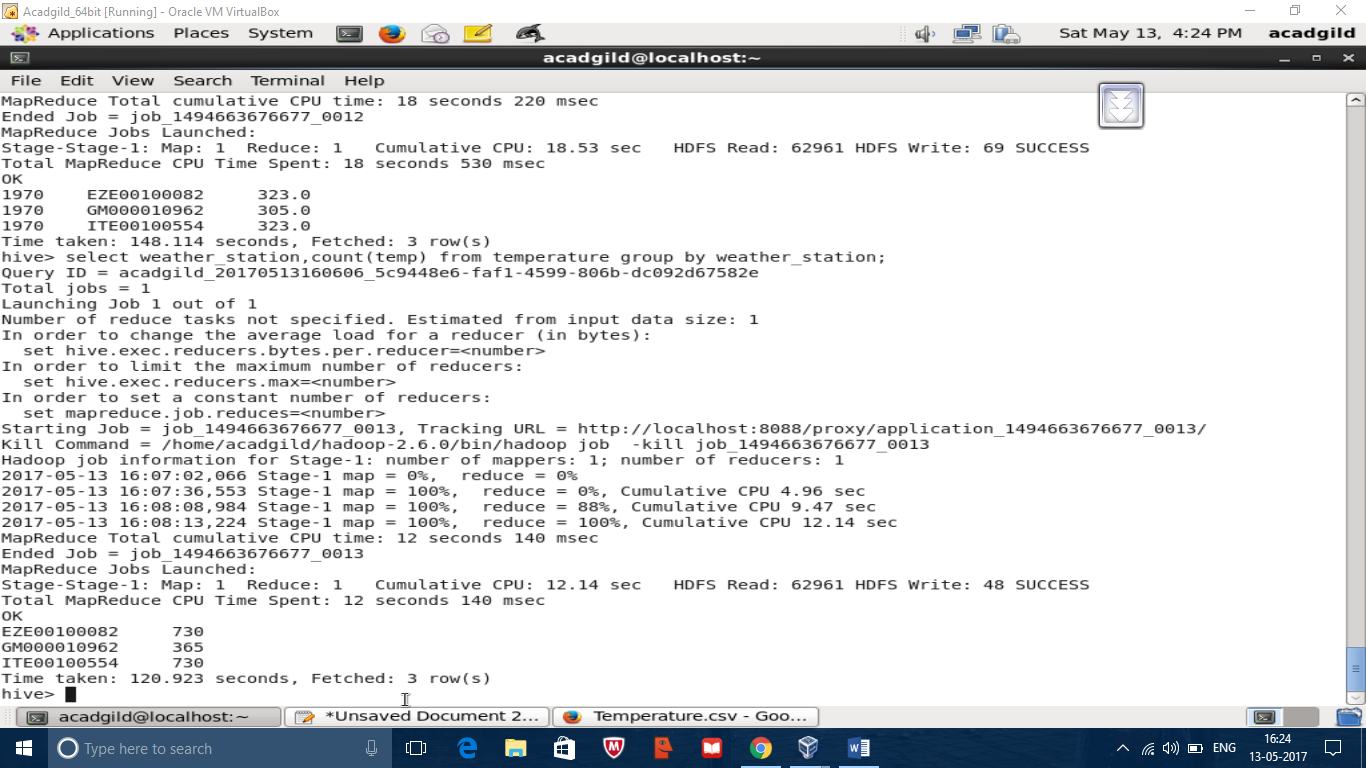


Problem 2

Output



Problem 3



Code

