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This Coding Challenge is developed using java.

The IDE used for development is Eclipse.

In this test a car simulation is carried out in 5\*5 grid.

-This program consists two file main.java and simulate.java

-All scenario and movement is written in simulate.java file.

-To execute this program run main.java file.

--Assumption (0,0) is the south-west corner of the grid and 5\*5 grid is formed taking positive value for x and y coordinate.

(0,5) (5,5)

w

E

N

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|  |  |  |  |  |

(0,0) (5,0)

S

-User is prompted to choose from the menu for each task to perform.

-Without a valid INIT (option 1 completed) user will not be able to continue with further process (step 2-5).

-How ever after successful or valid INIT process user can perform any task including INIT.

-User can choose to continue with initializing of the car or exit the process by pressing y or n. (User is prompted again if the input is not y or n.)

-while initializing the car position, three input is required from user one each for x-coordinate, y-coordinate and facing.

-After selection of each menu option, the task is carried out (if valid), else an appropriate message is displayed.

-After execution of each valid movement user is prompted again to choose from menu.

-This program can be terminated any time by choosing option 6 form menu.

Note: For message Current Position and Your Input n, s, e, w indicates north, south, east or west.