One parameters of comfortable drive is vehicle’s movement stability when it drive. Vehicle can be loss of control when it turn at specific velocity and turning radius will be skid and rolling. The solution to solve the problems can solve with add stabilizer. In the final project will be comparate between use rear stabilizer and without rear stabilizer.

Stability of vehicle can be look when the vehicle turn because at the moment the control gravity is change as the result of centrifugal force. The account of centrifugal force will influence the performance of the vehicle itself. The turning stability can be analyzed by use skid analysis and rolling analysis.

Result from analysis indicate that Toyota Avanza Type 1.3 E more oversteer in comparison with Daihatsu Xenia Type 1.3 Deluxe (Xi).

Key word: real turning radius, slip angle, Ackerman Condition, skid analysis, rolling analysis.