In this study, traffic signaling by fuzzy logic according to the number of vehicles, vehicle type, fuel, and time parameters of 5 leg roundabouts were simulated in the computer environment. For this purpose, city surveillance cameras (mobese) were used for the selected intersection. In the simulation, the Mamdani type fuzzy model was used. The results of the application are listed in tables. According to the vehicle density coming near the intersection, the transition times or stopping times applied to the intersection were optimized. Also, type of vehicles coming near the intersection are analyzed and vehicles with high fuel consumption are given priority. Thus, fuel consumption and environmental pollution can be reduced. The methods in this study are compared in terms of fuel saving, environmental effects, and faster road flow.