

# MULTI-STORAGE CAR PARKING

## ABSTRACT

In recent times the number of vehicles are consistently rising and parking space is becoming a major issue in urban and semi urban cities so there is needs to design a parking system which will reduce manual work as well reduce the problem of cars parking on streets. Since in modern world, where space has become a very big problem and in the era of miniaturization it has become a very important to avoid the wastage of space in modern, big companies and apartments etc. Automatic Car Parking enables the parking of vehicles-floor after floor and thus reducing the space used. In this paper we implemented the concept of Microcontroller Based car parking system. As we see in the modern world everything is going automation, here we have deployed an automatic microcontroller based system which is used to sense the presence & movement of cars and depending on availability of space it allows parking and same is displayed on LCD panel. There is also RFID module that will provide security as users who have authority can swap the RFID cards and get entry otherwise not. It will also be used to settle the parking fee that has to be paid by the user. The project is designed for automatically parking a car into the desired parking spot in a multi-floor parking lot.

### BLOCK DIAGRAM:

