Managing parking lots in today's busy traffic is a growing problem and various cost and space effective techniques are developed for it. Innovations keep on adding up to ease and effectiveness of a product. Our project focuses on such a design which focuses on mainly cost and is also efficient so that it may be installable in even deprived areas. Firstly, I would like to state that we will somewhat combine the 2 projects stated in the list given by the instructor. Project 9 & 10 i.e Car parking system and Home automation using PC.

The design will include a barrier at first at the entrance of the lot. Here the proximity sensor will be placed. The barrier will be open until empty spaces are there in the lot and will close at 2 instances only, 1 when lot is completely empty and 1 when it is full. Further there will be a counter as was asked by the instructor. We will develop it for 16 cars but it can be varied. We will add on a LDR which will keep sense of day/Night conditions to switch ON/OFF the parking lights when lot is empty.

To all this, we will try and add some more features in our project to make it unique. We have planned to transform it into a multi-stored car park system with multiple floors. Adding a lift and sensors accordingly. Each floor having it's own varied capacity, it's own counter and lift entrance with all the display's patched on the ground floor. This will make it further space efficient as building floors one on one consumes less space on ground. Once the basic task is done we will be looking into such enhancements. Our project makes use of 8051 microcontroller.