

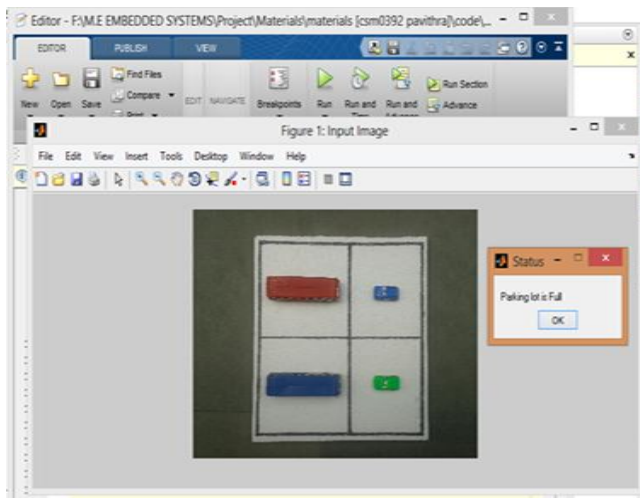








When a car approaches the parking area, its image is processed and it is converted into a grey scale image. The white area is calculated and based on the obtained area, the system identifies it as a car and directs it towards the right.



**Figure 6.3:** Simulated output when parking area is full

When the image of the parking area that is fully occupied is given as an input to the system, the system processes the image in Matlab and displays that the parking area is full.

## 7. Conclusion

A system has been designed for automatically detecting and counting the vehicles at the parking area. The working of this system proves efficient for the developed prototype model of the parking system involving the parking lots for four vehicles, two for parking cars and the remaining two for parking buses. This system will be beneficial for the usage in the institutes which involves the parking of cars and buses.

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