

Logistic Regression

This algorithm got 49/50 predictions right. I incorrectly classified one of the "running" test data points as a "car" data point.

```
C:\Program Files\Anaconda3\python.exe

C:\Car' 'car' 'car' 'car' 'car' 'car' 'car' 'car' 'internet'
'internet' 'internet' 'internet' 'internet' 'internet'
'internet' 'internet' 'internet' 'unning' 'running' 'running'
'car' 'running' 'running' 'running' 'running' 'running' 'stairs' 'stairs'
'stairs' 'stairs' 'stairs' 'stairs' 'stairs' 'stairs'
'walking' 'walking' 'walking' 'walking' 'walking' 'walking' 'walking'
'press any key to continue . . .
```

K Neighbors and SVM

Both of these algorithms successfully classified 50/50 test points. I think this worked better for this data in particular because there are clear clusters in the data—the boundary lines are not ambiguous.

Linear regression would probably work better in a case where the data is not in such clear clusters, and a regression line needs to be found that actually fits the data.