## Homework 8

## Code:

## Result:

```
> modedataset1 <- my.mode(dataset1) # find the mode of the dataset 1
Result: no mode

> modedataset2 <- my.mode(dataset2) # find the mode of the dataset 2
Result: 3

> modedataset3 <- my.mode(dataset3) # find the mode of the dataset 3
Result: 2 4

> modedataset4 <- my.mode(dataset4) # find the mode of the dataset 4
Result: 1 2 3 4

> modedataset5 <- my.mode(dataset5) # find the mode of the dataset 5
Result: no mode</pre>
```

## Conclusion:

From the experiment, my.mode is the function that demonstrates how to find the mode using the maximum value in that dataset. The mode of dataset 1 is no mode, dataset 2 is 3, dataset 3 is 2 and 4, dataset 4 is 1, 2, 3, and 4, and dataset 5 is no mode. In my opinion, it will have no mode when all values occur at once or occur more than or equal to 2 with the same maximum value, and the others will have the mode.