Coding:

Result:

```
> result <- myMode(sampleData1)
> cat("The mode of sample1 was ", result, "\n")
The mode of sample1 was No mode
>
> result <- myMode(sampleData2)
> cat("The mode of sample2 was ", result, "\n")
The mode of sample2 was 3
>
> result <- myMode(sampleData3)
> cat("The mode of sample3 was ", result, "\n")
The mode of sample3 was 2 4
>
> result <- myMode(sampleData4)
> cat("The mode of sample4 was ", result, "\n")
The mode of sample4 was 1 2 3 4
>
> result <- myMode(sampleData5)
> cat("The mode of sample5 was ", result, "\n")
The mode of sample5 was No mode
```

Conclusion:

My function "myMode" creates a frequency table from the input data, use the frequency table to find the max frequency, and then find the value with the maximum frequency. Lastly it returns the value out from the function.