ACADGILD ASSIGNMENT 5.1

1. How many vowels are there in the names of USA States?

Answer:

```
> library(stringr)
> vowels= c("a", "e", "i","o","u")
> num_vowels=vector(mode= "integer",length = 5)
> for(j in seq_along(vowels)){
+   num_aux =str_count(tolower(state.division) ,pattern = vowels[j])
+   num_vowels[j]= sum(num_aux)
+ }
> #add vowel names
> names(num_vowels)= vowels
> #total number of vowels
> num_vowels
 a  e  i  o  u
70 55 32 36 24
```

2. Visualize the vowels distribution
Answer:

library(stringr)

vowels= c("a", "e", "i","o","u")

num_vowels=vector(mode= "integer",length = 5)

for(j in seq_along(vowels)){num_aux
=str_count(tolower(state.division) ,pattern = vowels[j])

```
  num_vowels[j]= sum(num_aux)

}

#add vowel names

names(num_vowels)= vowels

#total number of vowels

num_vowels

hist(num_vowels)
```

Histogram of num_vowels