

Assignment 5.1

Ans1

```
# vector of vowels
```

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

```
# vector for storing results
```

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

```
# calculate number of vowels in each name
```

```
for (j in seq_along(vowels))
```

```
{
```

```
  num_aux = str_count(tolower(states), vowels[j])
```

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

```
}
```

```
# add vowel names
```

```
names(num_vowels) = vowels
```

```
# total number of vowels
```

```
num_vowels
```

Ans 2

```
barplot(num_vowels, main = "Number of vowels in USA States names",  
border = NA, ylim = c(0, 80))
```