

Assignment 4.3

1. `states = rownames(USArrests)`

- Get states names with 'w'.
- Get states names with 'W'.

```
library(stringr)
```

```
states=rownames(USArrests)
```

```
print(states)
```

```
small_w <- 'w'
```

```
big_w <- 'W'
```

```
nameswith_w <- states[str_detect(states , small_w )]
```

```
nameswith_W <- states[str_detect(states , big_w )]
```

```
#Name with w
```

```
print(nameswith_w)
```

```
#Name with W
```

```
print(nameswith_W)
```

Screenshot of the output and R file attached.

2. Prepare a histogram of the number of characters in each US State.

Same R file is used for both the questions . R file and histogram png file attached

```
library(stringr)

states=rownames(USArrests)

print(states)

#Number of characters
character_numbers <- nchar(states)
print(character_numbers)

png(file = "citynames.png")

# Create the histogram.
hist(character_numbers,xlab = "Number of Charectors",col = "yellow",border = "blue")

# Save the file.
dev.off()
```