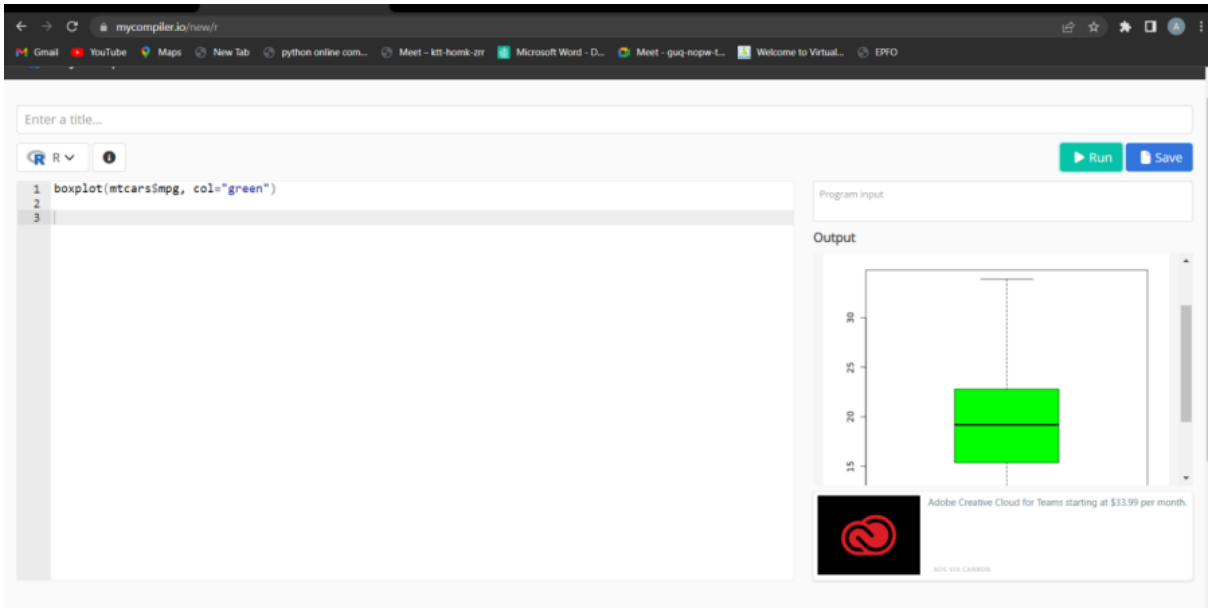
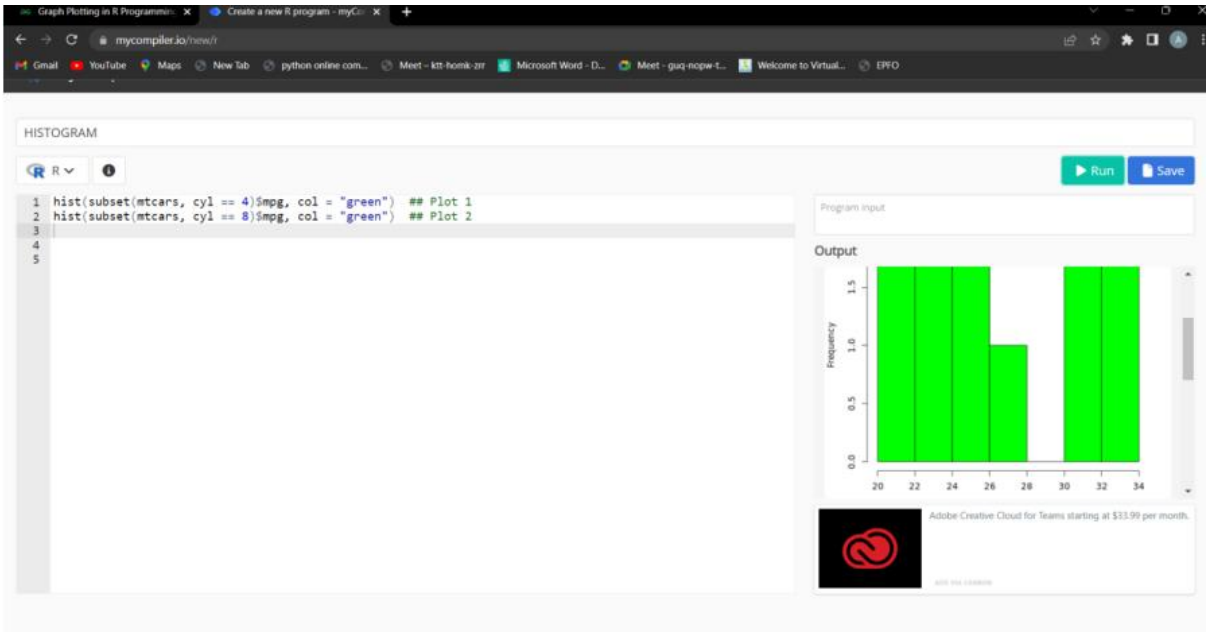
EXPERIMENT 3:-





HISTOGRAM

R

Run Save

```
1 with(mtcars, plot(mpg, qsec))
2
3
4
5
```

Program input

Output

Adobe Creative Cloud for Teams starting at $33.99 per month.

EXPERIMENT 4:-

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MEAN

R

Run Save

```
1 x <- c(12,7,3,4.2,18,2,54,-21,8,-5)
2
3 # Find Mean.
4 result.mean <- mean(x)
5 print(result.mean)
6
```

Program input

Output

```
[1] 8.22

[Execution complete with exit code 0]
```

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MEDIAN

Ctrl+Enter

R

Run Save

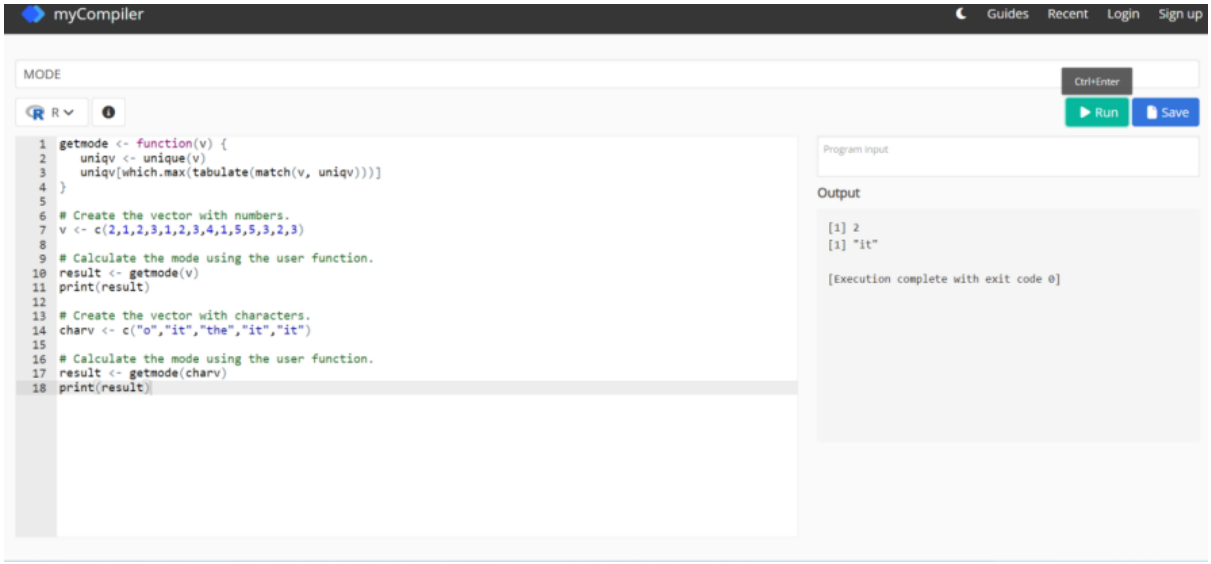
```
1 x <- c(12,7,3,4.2,18,2,54,-21,8,-5)
2
3 # Find the median.
4 median.result <- median(x)
5 print(median.result)
```

Program input

Output

```
[1] 5.6

[Execution complete with exit code 0]
```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MODE
Ctrl+Enter
R
Run
Save
1 getmode <- function(v) {
2 uniqv <- unique(v)
3 uniqv[which.max(tabulate(match(v, uniqv)))]
4 }
5
6 # Create the vector with numbers.
7 v <- c(2,1,2,3,1,2,3,4,1,5,5,3,2,3)
8
9 # Calculate the mode using the user function.
10 result <- getmode(v)
11 print(result)
12
13 # Create the vector with characters.
14 charv <- c("o","it","the","it","it")
15
16 # Calculate the mode using the user function.
17 result <- getmode(charv)
18 print(result)
Program input
Output
[1] 2
[1] "it"
[Execution complete with exit code 0]