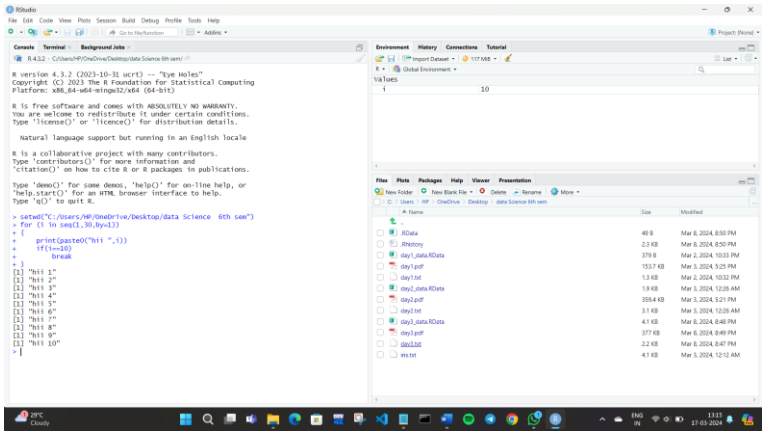
```
for (i in seq(1,30,by=1))
{
print(paste0("hii ",i))
if(i==10)
break
}
```



```
for (i in seq(1,30,by=1))
{
  if(i==10)
    break
  print(paste0("hii ",i))
}
```

```
[1] "hii 1"
[1] "hii 2"
[1] "hii 3"
[1] "hii 4"
[1] "hii 5"
[1] "hii 6"
[1] "hii 7"
[1] "hii 8"
[1] "hii 9"
```

```
for (i in seq(1,30,by=1))
{
  if(i==10)
  {
    print(paste0("hii ",i))
    break
```

```
 }
}
```

```
[1] "hii 10"
```

```
for (i in seq(1,30,by=1))
{
print(paste0("hii ",i))
print(paste("hi",i,sep=","))
if(i==10)
break
}
```

```
[1] "hii 1"
[1] "hi,1"
[1] "hii 2"
[1] "hi,2"
[1] "hii 3"
[1] "hi,3"
[1] "hii 4"
[1] "hi,4"
[1] "hii 5"
[1] "hi,5"
[1] "hii 6"
[1] "hi,6"
[1] "hii 7"
[1] "hi,7"
[1] "hii 8"
[1] "hi,8"
[1] "hii 9"
[1] "hi,9"
[1] "hii 10"
[1] "hi,10"
```

```
for (i in seq(1,30,by=1))
{
if(i==10)
next
print(paste0("hii ",i))
}
```

```
[1] "hii 1"
[1] "hii 2"
[1] "hii 3"
[1] "hii 4"
[1] "hii 5"
[1] "hii 6"
[1] "hii 7"
[1] "hii 8"
[1] "hii 9"
[1] "hii 11"
[1] "hii 12"
[1] "hii 13"
[1] "hii 14"
[1] "hii 15"
[1] "hii 16"
[1] "hii 17"
[1] "hii 18"
[1] "hii 19"
[1] "hii 20"
[1] "hii 21"
[1] "hii 22"
[1] "hii 23"
[1] "hii 24"
[1] "hii 25"
[1] "hii 26"
[1] "hii 27"
[1] "hii 28"
[1] "hii 29"
[1] "hii 30"
```

Values	
i	30

```
for (i in seq(1,30,by=1))
{
  print(paste0("hii ",i))
  if(i==10)
    next
}
```

```
[1] "hii 1"
[1] "hii 2"
[1] "hii 3"
[1] "hii 4"
[1] "hii 5"
[1] "hii 6"
[1] "hii 7"
[1] "hii 8"
[1] "hii 9"
[1] "hii 10"
[1] "hii 11"
[1] "hii 12"
[1] "hii 13"
[1] "hii 14"
[1] "hii 15"
[1] "hii 16"
[1] "hii 17"
[1] "hii 18"
[1] "hii 19"
[1] "hii 20"
[1] "hii 21"
[1] "hii 22"
[1] "hii 23"
[1] "hii 24"
[1] "hii 25"
[1] "hii 26"
[1] "hii 27"
[1] "hii 28"
[1] "hii 29"
[1] "hii 30"
```

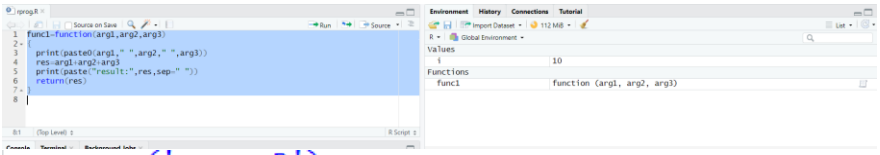
```
for (i in seq(1,30,by=1))
{


 if(i==10)
 {
   print(paste0("hii ",i))
   next
  }
}
```

```
[1] "hii 10"
```

```
func1=function(arg1,arg2,arg3)
{
  print(paste0(arg1," ",arg2," ",arg3))
  res=arg1+arg2+arg3
```

```
  print(paste("result:",res,sep=" "))
  return(res)
}
```



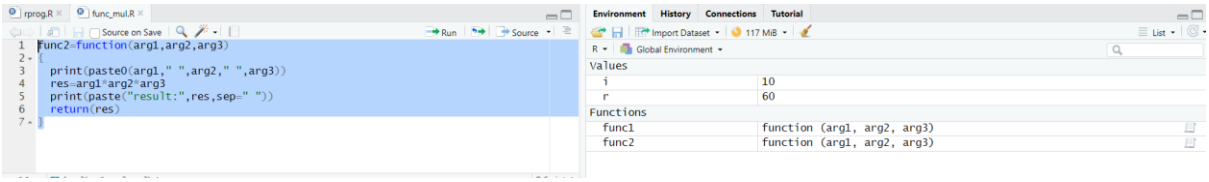
```
> source('rprog.R')
> func1(10,20,30)
[1] "10 20 30"
[1] "result: 60"
[1] 60
```

```
r=func1(10,20,30)
[1] "10 20 30"
[1] "result: 60"
```

r

```
[1] 60
```

```
func2=function(arg1,arg2,arg3)
{
  print(paste0(arg1," ",arg2," ",arg3))
  res=arg1*arg2*arg3
  print(paste("result:",res,sep=" "))
  return(res)
}
```



```
> source('func_mul.R')
> func2(10,10,10)
[1] "10 10 10"
[1] "result: 1000"
[1] 1000
```

```
> s=func2(10,10,10)
[1] "10 10 10"
[1] "result: 1000"
> s
[1] 1000
```

```
car_data=mtcars
View(car_data)
```

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225.0	105	2.76	3.460	20.22	1	0	3	1

Showing 1 to 6 of 32 entries, 11 total columns

summary(car_data$mpg)

```
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  10.40   15.43   19.20   20.09   22.80   33.90
```

min(car_data$mpg)

```
[1] 10.4
```

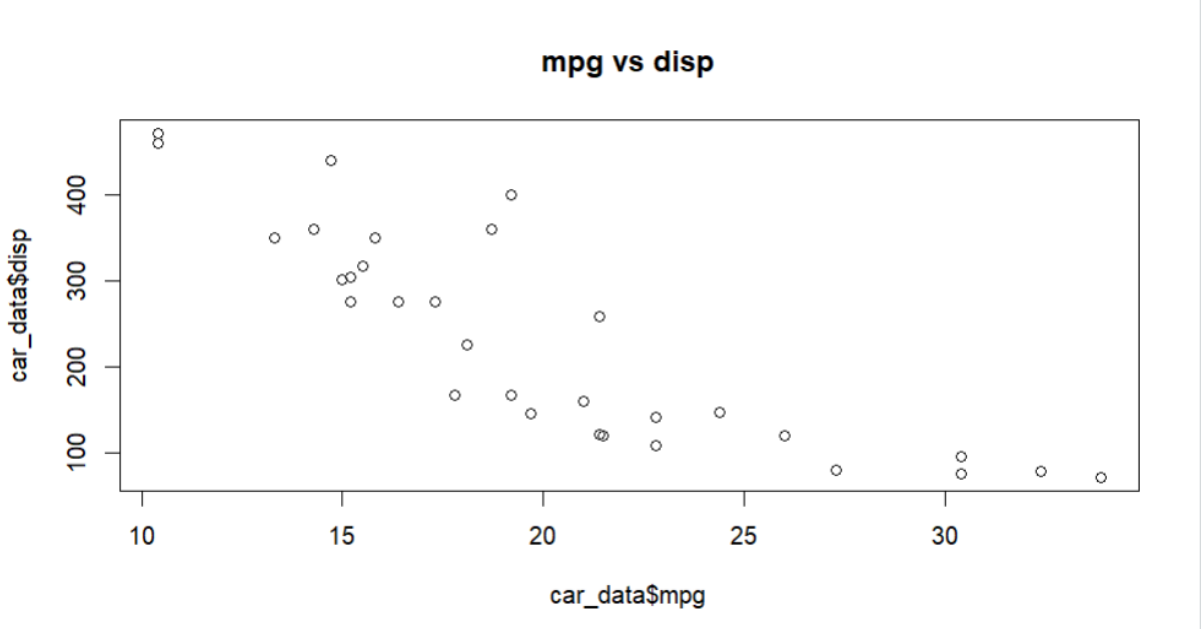
mean(car_data$mpg)

```
[1] 20.09062
```

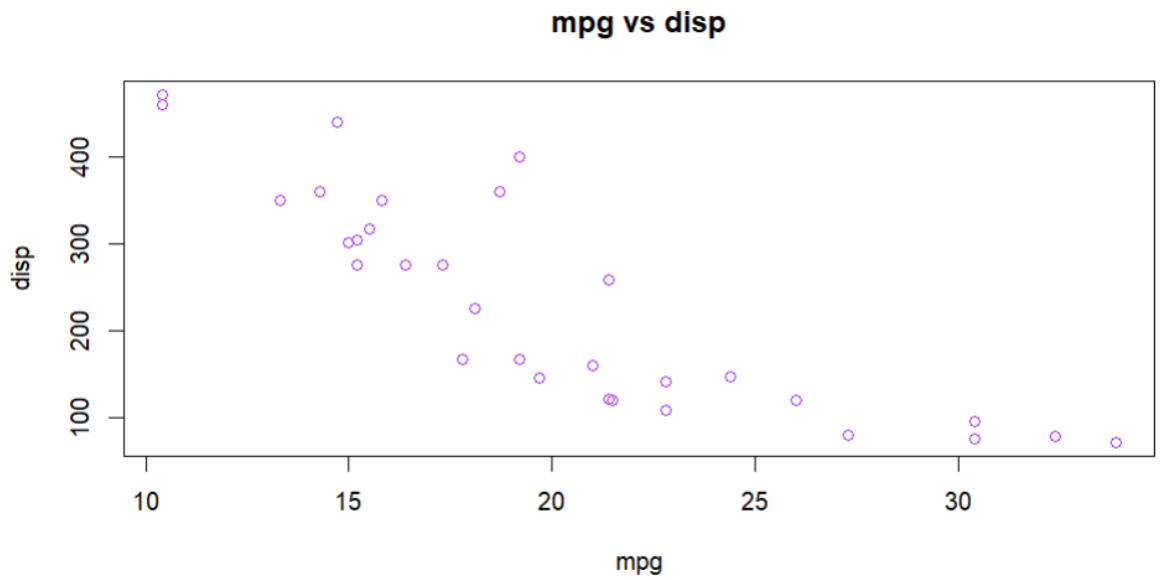
summary(car_data)

```
      mpg             cyl             disp             hp             drat
 Min.   :10.40   Min.   :4.000   Min.   : 71.1   Min.   : 52.0   Min.   :2.760
 1st Qu.:15.43   1st Qu.:4.000   1st Qu.:120.8   1st Qu.: 96.5   1st Qu.:3.080
 Median :19.20   Median :6.000   Median :196.3   Median :123.0   Median :3.695
 Mean   :20.09   Mean   :6.188   Mean   :230.7   Mean   :146.7   Mean   :3.597
 3rd Qu.:22.80   3rd Qu.:8.000   3rd Qu.:326.0   3rd Qu.:180.0   3rd Qu.:3.920
 Max.   :33.90   Max.   :8.000   Max.   :472.0   Max.   :335.0   Max.   :4.930
       wt             qsec             vs              am              gear
 Min.   :1.513   Min.   :14.50   Min.   :0.0000   Min.   :0.0000   Min.   :3.000
 1st Qu.:2.581   1st Qu.:16.89   1st Qu.:0.0000   1st Qu.:0.0000   1st Qu.:3.000
 Median :3.325   Median :17.71   Median :0.0000   Median :0.0000   Median :4.000
 Mean   :3.217   Mean   :17.85   Mean   :0.4375   Mean   :0.4062   Mean   :3.688
 3rd Qu.:3.610   3rd Qu.:18.90   3rd Qu.:1.0000   3rd Qu.:1.0000   3rd Qu.:4.000
 Max.   :5.424   Max.   :22.90   Max.   :1.0000   Max.   :1.0000   Max.   :5.000
      carb
 Min.   :1.000
 1st Qu.:2.000
 Median :2.000
 Mean   :2.812
 3rd Qu.:4.000
 Max.   :8.000
```

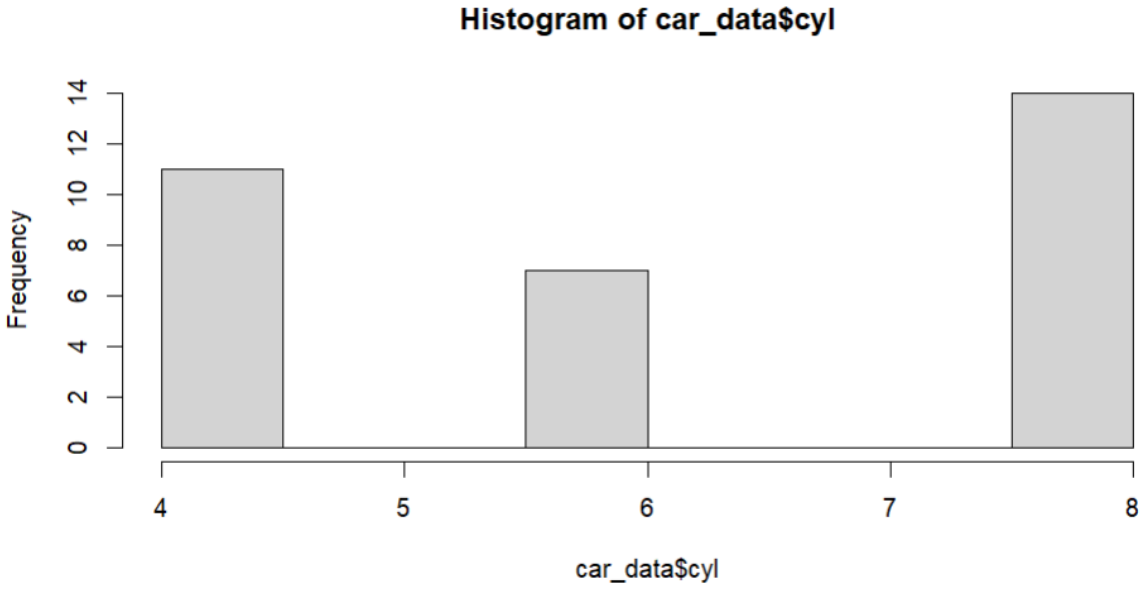
```
plot(car_data$mpg,car_data$disp,main="mpg vs disp")
```



plot(car_datampg,car_datadisp,main="mpg vs disp",xlab="mpg",ylab="disp",col="purple")



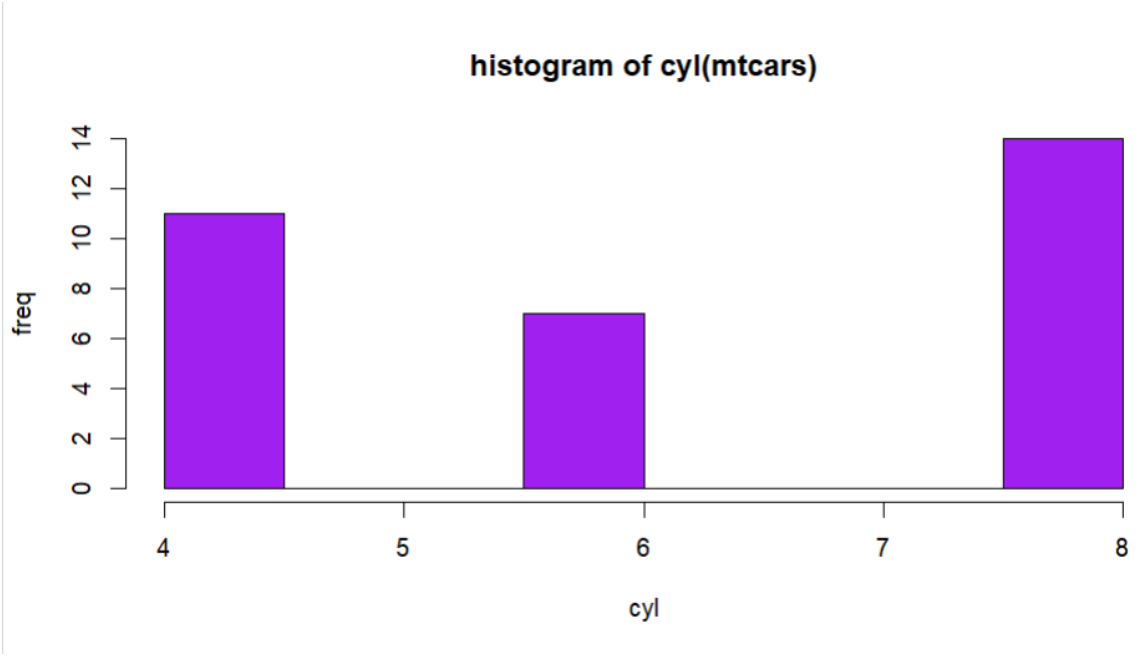
hist(car_data$cyl)



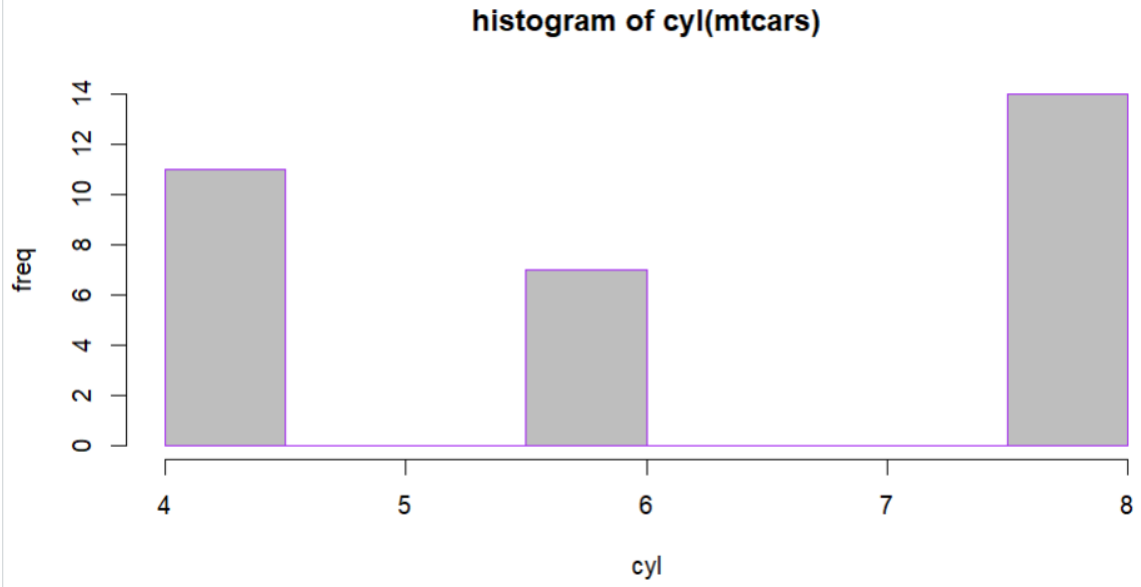
table(car_data$cyl)

```
 4  6  8
11  7 14
```

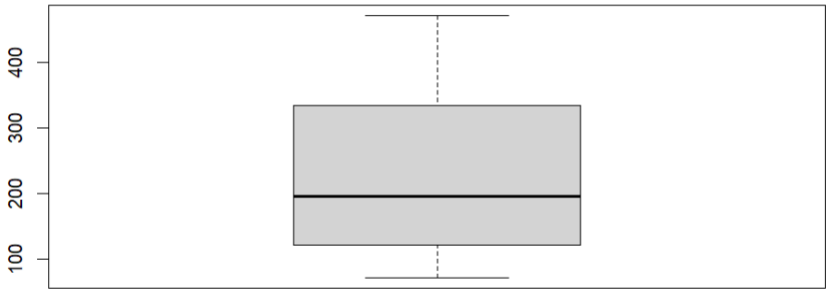
```
hist(car_data$cyl,main="histogram of cyl(mtcars)",xlab="cyl",ylab="freq",c
ol="purple")
```




```
hist(car_data$cyl,main="histogram of cyl(mtcars)",xlab="cyl",ylab="freq",col="grey",border="purple")
```



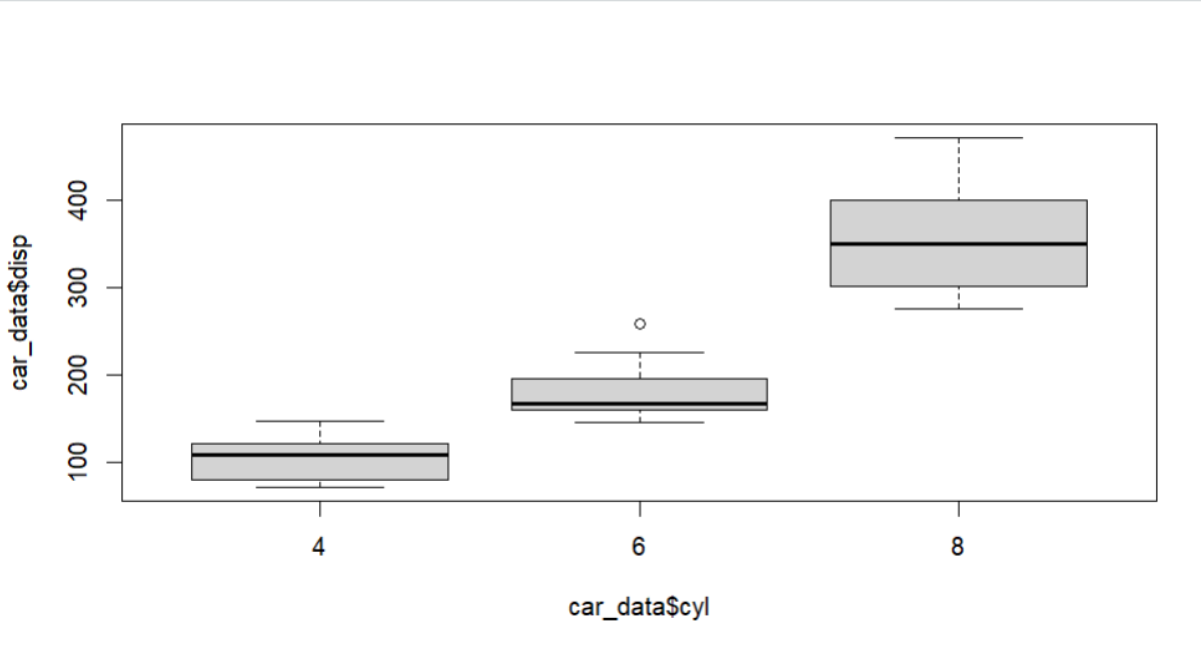
boxplot(car_data$disp)



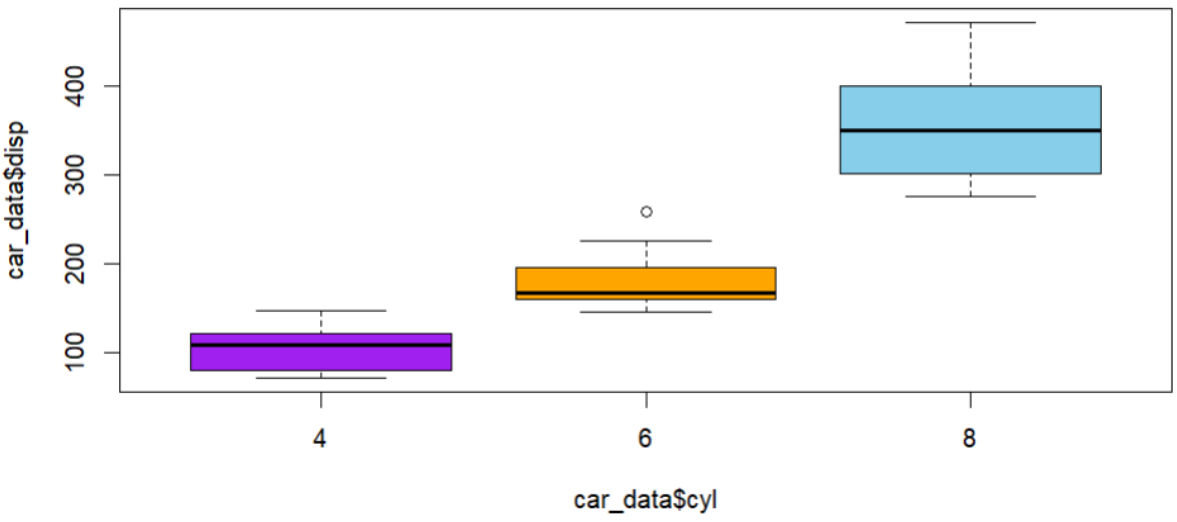
summary(car_data$disp)

```
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max. 
  71.1   120.8   196.3   230.7   326.0   472.0 
```

boxplot(car_data$disp~car_data$cyl,mtcars)




```
boxplot(car_data$disp~car_data$cyl,mtcars,col=c("purple","orange","skyblue
"))
```



cor(car_datampg,car_datadisp)

```
[1] -0.8475514
```

data_iris=iris

```
cor(data_iris$Sepal.Length,data_iris$Petal.Length)
```

```
[1] 0.8717538
```