

Assignment 7.2

Ans 1

```
library(tidyr)
```

```
library(ggplot2)
```

```
mtcars %>% gather() %>% head()
```

```
ggplot(gather(mtcars), aes(value)) +
```

```
  geom_histogram(bins = 10) +
```

```
  facet_wrap(~key, scales = 'free_x')
```

Ans 2

```
plot(wt, gears, main="Scatterplot Example",  
      xlab="Car Weight ", ylab=" Gears ", pch=19)
```

Ans 3

```
ggplot(mtcars, aes(x = wt, y = hp, color = factor(quart))) +  
  geom_point(shape = 16, size = 5) +  
  theme(legend.position = c(0.80, 0.85),  
        legend.background = element_rect(colour = "black"),  
        panel.background = element_rect(fill = "black")) +  
  labs(x = "Weight (1,000lbs)", y = "Horsepower") +  
  scale_colour_manual(values = c("#fdcc8a", "#fc8d59", "#e34a33",  
"#b30000"),  
                      name = "Quartiles of qsec",  
                      labels = c("14.5-16.9s", "17.0-17.7s", "17.8-  
18.9s", "19.0-22.9s"))
```