Project 1

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This project is due on the deadline posted on edX. Please submit as a pdf file.

Part 1: Demonstrate basic command of Markdown by creating a bulleted list with three items, a numbered list with three items, and a sentence that has one word in bold and one word in italics.

- Bulleted item1
- Bulleted item2
- Bulleted item3

1. Numbered Item 1
2. Numbered Item 2
3. Numbered Item 3

This sentence contains one word in **bold** and one word in *italics*.

Part 2: The `mtcars` dataset contains information on car design and performance in 1974:

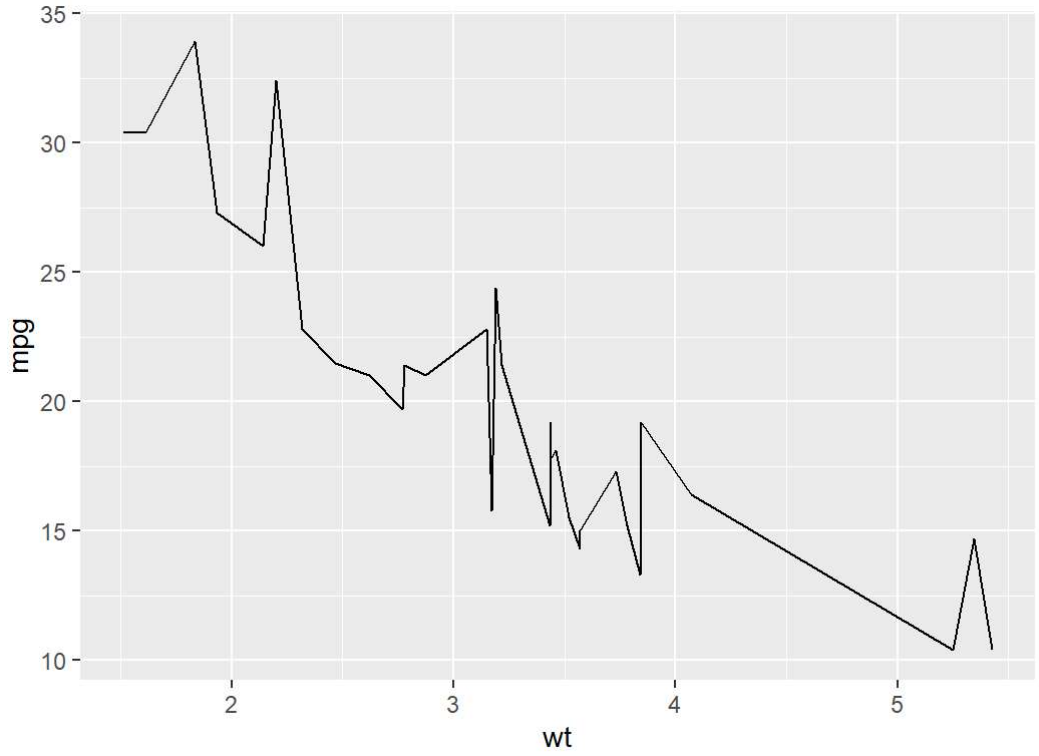
```
mtcars
```

	mpg <dbl>	cyl <dbl>	disp <dbl>	hp <dbl>	drat <dbl>	wt <dbl>	qsec <dbl>	vs <dbl>	am <dbl>
Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1
Datsun 710	22.8	4	108.0	93	3.85	2.320	18.61	1	1
Hornet 4 Drive	21.4	6	258.0	110	3.08	3.215	19.44	1	0
Hornet Sportabout	18.7	8	360.0	175	3.15	3.440	17.02	0	0
Valiant	18.1	6	225.0	105	2.76	3.460	20.22	1	0
Duster 360	14.3	8	360.0	245	3.21	3.570	15.84	0	0
Merc 240D	24.4	4	146.7	62	3.69	3.190	20.00	1	0
Merc 230	22.8	4	140.8	95	3.92	3.150	22.90	1	0
Merc 280	19.2	6	167.6	123	3.92	3.440	18.30	1	0

1-10 of 32 rows | 1-10 of 12 columns Previous **1** 2 3 4 Next

Use ggplot to make a line plot of the weight of a car (column `wt`) versus its fuel economy, measured in miles/gallon (column `mpg`).

```
ggplot(mtcars, aes(x=wt, y=mpg)) +
  geom_line()
```



Now make a scatter plot (using `geom_point()`) of the weight of the car versus its horse power (`hp`), and color points by its fuel economy.

```
ggplot(mtcars, aes(x = wt, y = hp, color = mpg)) +
  geom_point()
```