Name-Appit Govlam Sec-C Std-Id-21711205

3.) Here, I am taking data set of Titanic ship that contains his toxical records of all passengers who on-bounded the titanic

Data set contains following variables:

- · Passenger Id : Serial no
- · Survived : O-dead & 1 survived
- · P class Ticket class 250, 2nd or 3rd
- · Name Name of passenger
- · Sex -MIF
- · Ticket Serial No.
- · Cabin Cabin No.

Analysis :

- 1) View (titanic) This fielps us in familiarsing with data set.
- 2) head (titanic, n) | tail (titanic, n) = It arranges first n

 data either from starting or end by default

 value of n is S.
- 3.) names (titanic) = This helps us in checking out all the variables in data set.

4.) Str (titanic): This helps in understanding the structure of data set, data type of each affribute & no. of rows f. column present in data.

1.) Asserbler, my newdata <- filter (titanic, age > 20)

9 Descriptive Statistics new data

In order to find descriptive statistics, we use summary (fitanic) command:

| Passenger Id | Survived Sex |
|-----------------|------------------------|
| Min. : 10 | Min.: 0.0 female: 314 |
| 1st Qv. : 223.5 | 1st Qu.: 0.0 Male: 577 |
| Median : 446.0 | Median: 0.0 |
| Mean: 446.0 | Mean : 0.38 |
| 3rd Qv. : 668.5 | 3 rd Qu: 1.0 |
| Max : 891.0 | max : 1.0 |
| Age | Fare |
| Min : 10 | Min. : 0.0 |
| 1st ao. : 20.12 | lst av : 7.91 |
| Median: 28.0 | Median : 14.51 |
| Mean : 29.7 | Median: 32.56 |
| 389 av. : 38.0 | 3rd Qv: 31.0 |
| Max : 80.0 | Max: 512.33 |

Inferential Statistics

- 1) Box graph gg plot (titanic, ars (x = survived)) + grom-box()
- *) From Bor graph, it can be inferred that only 38.3%. of the passengers did survived.
 - 2) Gender Based survival : gg plot (titanic, all (x = sex, fill = survived))

 + theme_bw() + geom_bor() + labs (y = "Passengers No.",

 title = " Eurvival Rate by Gender")
 - **) From graph, the survival rate amongst the women was significantly higher when compared to men.
 - Histogram & Survival Raks basis age): ggplot (titanic, aes (n= Age, fill = Survived)) + theme bw() + geom-histogram (binwidth=5) + labs(y="No. of lassengers", n="Age")
 - +) from graph, we inject that for age < 10 section in graph, the survival rate is low for age beyond 45.