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Subject → SL/R practical

Class → MCA
Sec → C
Sem → 1st

Q1.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<script>
```

```
function validate Form()
```

```
{
```

```
var x = document.forms ["my form"] ["fname"].value;
```

```
if (x == " " || x == null)
```

```
{
```

```
alert ("Name must be filled out");
```

```
return false;
```

```
}
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h2> JavaScript Validation for empty input field </h2>
```

```
<p> try to submit the form without entering any text. </p>
```

```
<form name = "my form"
```

```
action = "/action_page.php" onsubmit = "return validate  
form()" method = "post" required >
```

```
Name: <input type = "text" name = "fname" >
```

```
<input type = "submit" value = "Submit" >
```

Aman Hasan Khan

```
</form>
</body>
</html>
```

a2.

```
<!DOCTYPE html>
<html>
  <head>
    <title> Student Registration </title>
  </head>
  <body>
    <h2> Student Registration Form </h2>
    <form action = "submit.php" method = "POST">
      <input type = "text" name = "Student First Name" value = ""
        placeholder = "Student First Name"><br/>
      <input type = "text" name = "Student Last Name" value = ""
        placeholder = "Student Last Name"><br/>
      <input type = "text" name = "Father's Name" value = ""
        placeholder = "Father's Name"><br/>
      <input type = "text"
      <input type = "date" name = "DOB" value = "" placeholder = "DOB"
        ><br/>
      <input type = "tel" name = "Mobile Number" value = "" placeholder
        = "Mobile Number"><br/>
      <input type = "submit" name = "Submit">
    </form>
  </body>
</html>
```

Anurag

~~</form>~~
~~</body>~~
~~</html>~~

Q2.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Registration Form </title>
```

```
</head>
```

```
<body>
```

```
<h2> Thank You For Submitting The Form </h2>
```

```
Student's First Name: <?php echo $_POST['StudentFirstName']  
?> <br />
```

```
Student's Last Name: <?php echo $_POST['StudentLastName']  
?> <br />
```

```
Student's Father Name: <?php echo $_POST['FathersName']?> <br />
```

```
Student's Mother Name: <?php echo $_POST['MothersName']?> <br />
```

```
Student's Date of Birth: <?php echo $_POST['DOB']?> <br />
```

```
Student's Mobile Number: <?php echo $_POST['MobileNumber']  
?> <br />
```

```
</body>
```

```
</html>
```

Amal Kumar

Q3. We are using here Titanic dataset to analyze
load data:

```
titanic <- read.csv("C:/users/Desktop/Titanic.csv", header =  
TRUE, as.is = TRUE)
```

Peak at your data

=> View(titanic)

This help us to familiarising with the dataset

=> head(titanic, 10)

=> return first 10 rows

=> tail(titanic, 10)

return bottom 10 rows

=> names(titanic)

This helps us in checking all the variables in the data set

=> summary(titanic)

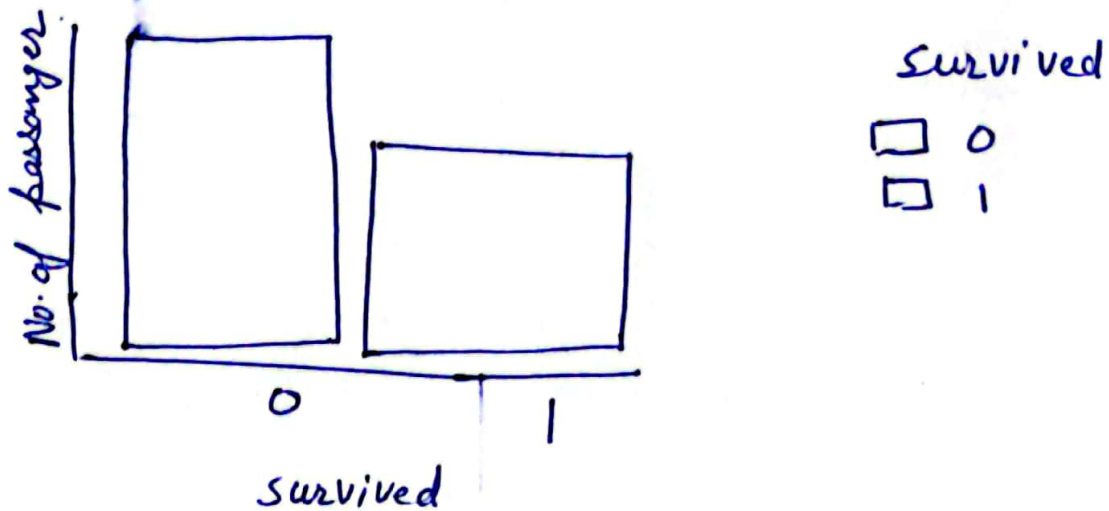
It is one of the most important functions that helps in summarizing each attribute in the data set

It gives the descriptive statistics of the data

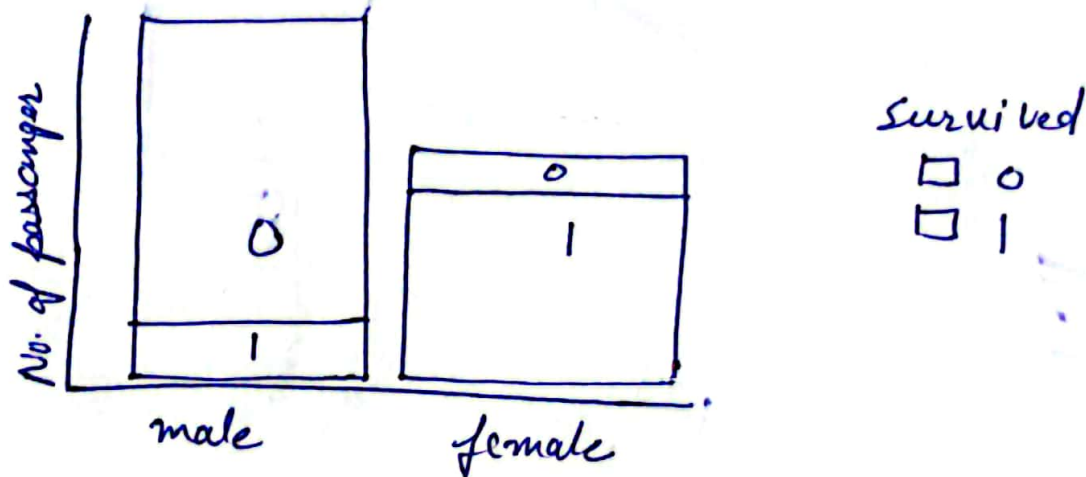
Analysis and visualizations:

- Survival rate:

```
ggplot(titanic, aes(x=survived)) + geom_bar()
```



- Survival rate based gender

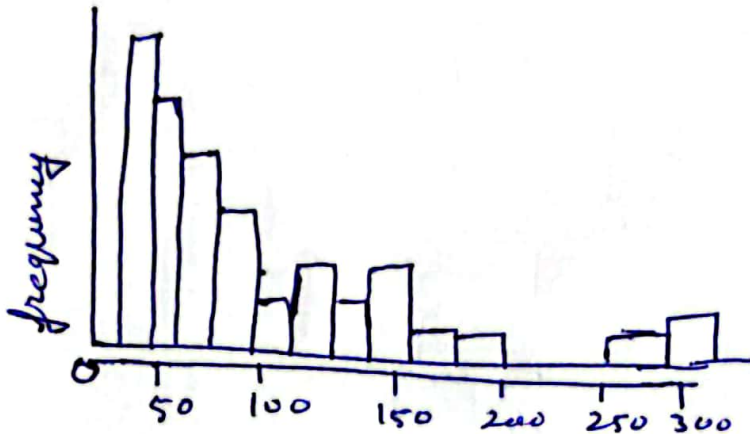


```
ggplot(titanic, aes(x=sex, fill=survived)) +  
  theme_bw() + geom_bar() +  
  labs(y="Number of passengers",  
       title="Survival Rate by Gender")
```

• Distribution of fare rate

hist (titanic \$ fare, main = "Fare per person", xlab =
"fare", col = "grey" breaks = 40, xlim = c(0, 300))

fare per person



Q4 Descriptive Statistics

Summary \Rightarrow Gives us the descriptive stats like
In case of Numerical data :- Gives mean, mode,
median, range

Measure of central Trending :-

= mean (titanic \$ fare) [an average person spent 32
to board the titanic]

= mode (titanic \$ Age) [most common age on
titanic]

= 24

= median (titanic \$ fare)

= 14.542

Measure of spread:

⇒ Arrange (Titanic & fare) [It shows lowest and highest value of fare]
0.000 512.3292

⇒ Var (Titanic & fare)

2469.437

= sqrt var (Titanic & fare)

49.69343

Inferential Statistics

- Hypothesis Testing:-

```
new_data <- subset (Titanic, Titanic & pclass == 1)
```

```
= test2.function(a, b, n) {
```

```
  samplemean = mean(a)
```

```
  pop mean = mean(b)
```

```
  c = nrow(n)
```

```
  var b = var(b)
```

```
  zeta = (sample - mean - pop - mean) / sqrt  
          (var b / c)
```

```
  return zeta
```

call function

```
z = test2.(new_data & survived, Titanic & survival,  
           new_data)
```

7.4232828

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