

2

```
<!DOCTYPE html>
<html>
<head>
<title> PHP Registration </title>
</head>
<body>
<?php
$nameErr = " ";
$emailErr = " ";
$genderErr = " ";
$name
$name = " ";
$email = " ";
$gender = " ";
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (empty($_POST["name"])) {
        $nameErr = "Name field required";
    } else {
        $name = test_input($_POST["name"]);
        if (!preg_match("/^[a-zA-Z-']*$/", $name)) {
            $nameErr = "only letters and white space allowed";
        }
    }
}
if (empty($_POST["email"])) {
    $emailErr = "Email Required";
} else {
    $email = test_input($_POST["email"]);
    if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
        $emailErr = "Invalid email ";
    }
}
}
```



Form

```

if (empty($_POST["gender"])) {
    $genderErr = "gender required";
} else {
    $gender = test_input($_POST["gender"]);
}
}

```

```

function test_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}

```

?>

```

<h1> PHP registration form </h1>
<form method="post" action="<?php echo htmlspecialchars(
$_SERVER["PHP_SELF"]); ?>">

```

```

<b> Enter Name : </b>

```

```

<input type="text" name="name" value="<?php echo $name; ?>">

```

```

<span> * <?php echo $nameErr; ?> </span>

```

```

<br> <br>

```

```

<b> Enter Email : </b>

```

```

<input type="text" name="email" value="<?php echo $email; ?>">

```

```

<span> * <?php echo $emailErr; ?> </span>

```

```

<br> <br>

```

```

<b> Select Gender : </b>

```

```

<input type="radio" name="gender" <?php if (isset($gender)
&& $gender == "female") echo "checked"; ?>

```



value = "female" > Female

\$show

```
<input type="radio" name="gender" <?php if(isset($gender)
&& $gender=="male") echo "checked" ;?> value="male">
```

Male

```
<span> * <?php echo $gender;?> </span>
```

```
<br> <br>
```

```
<input type="submit" name="submit" value="Register">
```

```
</form>
```

```
<?php
```

```
echo "<h2> Your Input: </h2>";
```

```
echo $name;
```

```
echo "<br>";
```

```
echo $email;
```

```
echo "<br>";
```

```
echo $website;
```

```
echo $gender;
```

```
?>
```

```
</body>
```

```
</html>
```

John

Q1.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<script>
```

```
function validate(){
```

```
    let x = document.forms["myform"]["fname"].value;
```

```
    if (x == ""){
```

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

```
        return false;
```

```
    }
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h2> Javascript Validation </h2>
```

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

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

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

```
</form>
```

```
</body>
```

```
</html>
```



Q3.

Analysing Dataset on Covid-19 cases in different state in India.

CODE

# Libraries used

library(dplyr)

# setting working directory and importing dataset

setwd("D:/gehu-1-lab")

mydata <- read.csv("Latest-Covid-19-India-status.csv")

mydata

# Barplot of active cases in different state/UT and saving bar plot in png file

png(file = "barplot.png")

barplot(mydata\$Active, xlab = "states/UT", ylab = "Active case", main = "Active Cases vs State", col = "orange",

names.arg = mydata\$state\_UTs)

dev.off()

# Statistical --- mean. mode etc.

summary(mydata)

Q4.

⇒ (Summary of the dataset given)  
of Death ratio

• minimum value is 0.04



- 1<sup>st</sup> Quarter is 0.9625
- Median is 1.3300
- Mean is 1.3056
- 3<sup>rd</sup> Quarter is 1.6625
- Maximum value is 2.7500

After analysing the dataset of covid 19 we have come to the conclusion that the mean active cases and death ratio of covid 19 are 0.3603 and 1.3056.

And the maximum total cases in a state is Karnataka (66,99,868) and the average of discharged person is 9,52,650.

~~On descriptive and inferential statistics of the dataset~~

(In Descriptive statistics we organize and present data in purely factual way.)  
~~and draw conclusion~~

# inferential statistics

1) chi-square test

```
model <- chisq.test(mydata)
model
```

2) correlation coefficient

```
cor(mydata$Active, mydata$Active_ratio)
```

3) Anova test

```
mysubdata <- aov(mydata$Active_ratio ~ mydata$Active)
```

# Output  $P(>P)$  is 0.0014 as this value is less than 0.05 then we reject Null Hypothesis and accept the alternative hypothesis

4) T-Test

# This gives us the T-score for the dataset

```
t.test(mydata, mu=100)
```

# Here pvalue is  $0.334263 > 0.05$

# So we accept the Null hypothesis.