```
#mean
> data=read.csv("D:/crop_production.csv")
 >mean=mean(data$Area)
 >cat("the mean value of Area is", mean)
the mean value of Area is 12002.82>
#median
 >median=median(data$Area)
 >cat("the median value of Area is", median)
the median value of Area is 582>
#standard deviation
 standard_deviation=sd(data$Area)
 cat(" the standard deviation value od Area
is", standard deviation)
 the standard deviation value od Area is 50523.4>
#Variance
variance = var(data$Area)
cat("The variance value of Area is ",variance)
The variance value of Area is 2552614354>
```

```
#skewness
numerator = 3*(mean-median)
value = numerator/standard deviation
cat("The skewness value is ",value)
The skewness value is 0.6781503
#Mean Deviation
  mean = mean(data\$Area)
column = data$Area - mean
mean dev = mean(column)
cat("The mean deviation value of Area is
",mean dev)
The mean deviation value of Area is
1.10592e-12>
#Geometric Mean:
geo_mean <- function(data) {</pre>
log data <- log(data) gm <-
exp(mean(log data[is.finite(log data)]))
return(gm)
}
```

```
geometric mean = geo mean(data$Area)
cat("The Geometric Mean value of Area is
",geometric mean)
#Range
```

range value = range(data\$Area)

cat("The Range value of Matches is ",range value)

The Range value of Matches is 0.04 8580100>

#nth Percentile

Area = data \$ Area

percentile = quantile(Area, c(.32, .57, .98))

cat("The percentile value of Area is ",percentile)

The percentile value of Area is 143 1000 137400>

#First and Second Quartile

first = quantile(data\$Area,0.25)

second = quantile(data\$Areas,0.5)

cat("The First and Second Quartile values are ",first,second)

The First and Second Quartile values are 80 NA>

#Quartile Deviation

first = quantile(data\$Area,0.25)

third = quantile(data\$Area,0.75)

Quartile_Deviation= (third-first)/2

cat("The Quartile Deviation value of Matches is ",Quartile Deviation)

The Quartile Deviation value of Matches is 2156>

#Any two deciles

first = quantile(data\$Area,0.1)

second = quantile(data\$Area,0.2)

cat("The two deciles value of Area is
",first,second)

The two deciles value of Area is 12 48>

#sum of column values

sum = sum(data\$Area)

cat("The sum of values of Area column is
",sum)

The sum of values of Area column is 2953786189>

#Minimum of column values

Minimum = min(data\$Area)

cat("The Minimum values of Area column is ",Minimum)

The Minimum values of Area column is 0.04>

#Maximum of column values

Maximum = max(data\$Area)

cat("The Maximum values of Area column is ",Maximum)

The Maximum values of Area column is 8580100>

```
#Harmonic Mean

col = data$Area

sum=0

for(i in col){

val = (1/i)

sum = sum + val

}

numerator = length(data$Area)

harmonic_mean = (numerator/sum)

cat("The harmonic mean is ",harmonic_mean)

The harmonic mean is 22.02765>
```