Program:-

```
data <- read.csv("C:/Users/moosa/Desktop/R programming/Iris.csv")
Mean <- function(datas){
  mean <- sum(datas)/length(datas)
  return(mean)
}
Median <- function(datas) {
  sorted data <- sort(datas)
  n <- length(sorted_data)
  if (n %% 2 != 0) {
    median_index <- (n - 1) / 2
    return(sorted_data[median_index + 1])
    median_index_1 <- n / 2
    median_index_2 <- n/2 + 1
    return((sorted_data[median_index_1] + sorted_data[median_index_2]) / 2)
  }
}
mode <- function(datas) {
  freq_table <- table(datas)
  max_freq <- max(freq_table)
  modes <- as.numeric(names(freq_table)[freq_table == max_freq])
  return(modes)
}
std <- function(datas){
  n <- length(datas)
  mean_value <- Mean(datas)
  square_sum <- sum((datas - mean_value)^2)
  standard_dev <- sqrt((square_sum / (n-1)))
  return(standard_dev)
}
cat("Min of SepalLength: ",min(data$SepalLengthCm),"\n")
cat("Max of SepalLength: ",max(data$SepalLengthCm),"\n")
cat("Mean of SepalLength: ",Mean(data$SepalLengthCm),"\n")
cat("Median of SepalLength: ", Median(data$SepalLengthCm), "\n")
cat("Mode of SepalLength: ", mode(data$SepalLengthCm), "\n")
cat("Standard Deviation of SepalLength: ", std(data$SepalLengthCm), "\n\n")
cat("Min of SepalWidth: ",min(data$SepalWidthCm),"\n")
cat("Max of SepalWidth: ",max(data$SepalWidthCm),"\n")
cat("Mean of SepalWidth: ",Mean(data$SepalWidthCm),"\n")
cat("Median of SepalLength: ", Median(data$SepalWidthCm), "\n")
cat("Mode of SepalLength: ", mode(data$SepalWidthCm), "\n")
cat("Standard Deviation of SepalLength: ", std(data$SepalWidthCm), "\n\n")
cat("Min of PetalLength: ",min(data$PetalLengthCm),"\n")
cat("Max of PetalLength: ",max(data$PetalLengthCm),"\n")
cat("Mean\ of\ PetalLength:",Mean(data\$PetalLengthCm),"\n")
cat("Median of PetalLength: ", Median(data$PetalLengthCm), "\n")
cat("Mode of PetalLength: ", mode(data$PetalLengthCm), "\n")
cat("Standard Deviation of PetalLength: ", std(data$PetalLengthCm), "\n\n")
```

Output:-

Min of SepalLength: 4.3
Max of SepalLength: 7.9
Mean of SepalLength: 5.843333
Median of SepalLength: 5.8

Mode of SepalLength: 5

Standard Deviation of SepalLength: 0.8280661

Min of SepalWidth: 2
Max of SepalWidth: 4.4
Mean of SepalWidth: 3.054
Median of SepalLength: 3
Mode of SepalLength: 3

Standard Deviation of SepalLength: 0.4335943

Min of PetalLength: 1
Max of PetalLength: 6.9
Mean of PetalLength: 3.758667
Median of PetalLength: 4.35
Mode of PetalLength: 1.5

Standard Deviation of PetalLength: 1.76442

Min of PetalWidth: 0.1 Max of PetalWidth: 2.5

Mean of PetalWidth: 1.198667 Median of PetalWidth: 1.3 Mode of PetalWidth: 0.2

Standard Deviation of PetalWidth: 0.7631607

