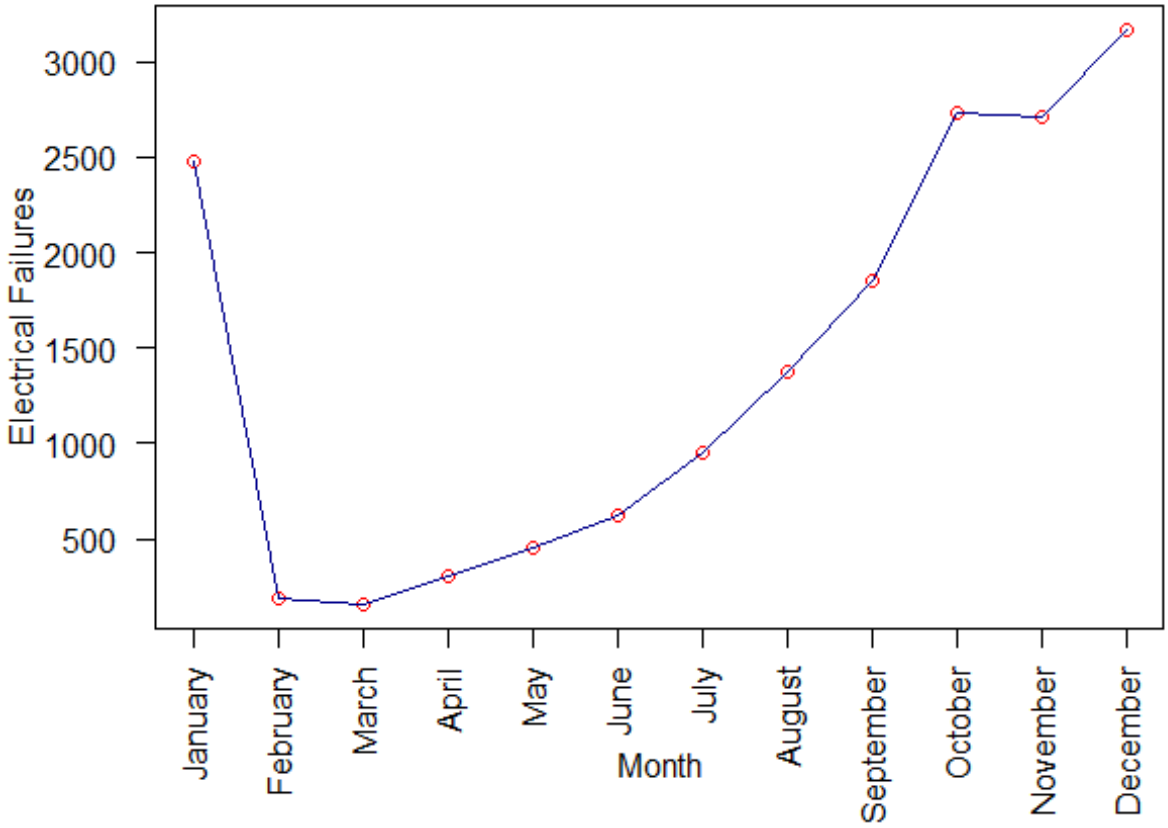
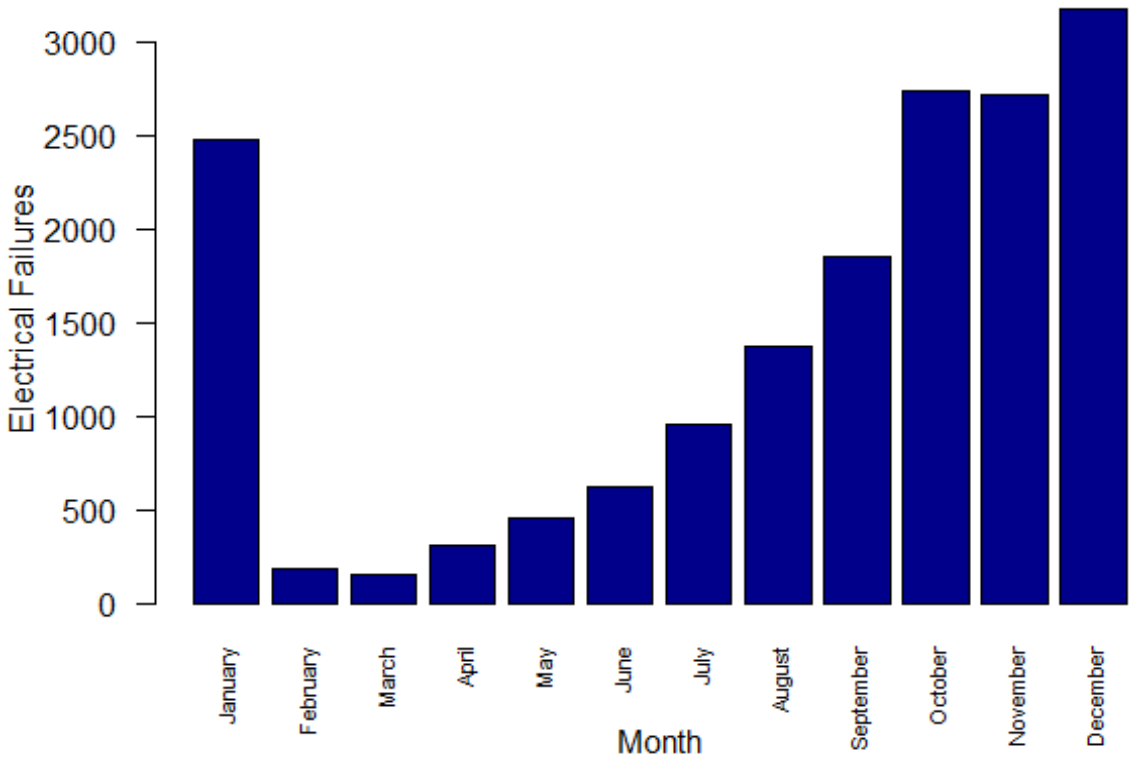
```
> mydata11<- read.csv("C:/Users/Nirbhay Pherwani/Desktop/KM Part ELC.csv")
>
> attach(mydata11)


>
> # Define variables
>
> time <- Month.No
>
> event <- event
>
> # Descriptive statistics
>
> summary(time)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  1.000   7.000  10.000   8.244  11.000  12.000
>
> summary(event)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
      1       1       1       1       1       1
>
> library(survival)
>
>
> # Kaplan-Meier non-parametric analysis
>
> kmsurvival <- survfit(Surv(time,event) ~ 1 , data=mydata11)
>
> summary(kmsurvival)
Call: survfit(formula = Surv(time, event) ~ 1, data = mydata11)

 time n.risk n.event survival std.err lower 95% CI upper 95% CI
    1  16995    2478    0.854 0.00271        0.849        0.860
    2  14517     186    0.843 0.00279        0.838        0.849
    3  14331     155    0.834 0.00285        0.829        0.840
    4  14176     303    0.816 0.00297        0.810        0.822
    5  13873     452    0.790 0.00313        0.784        0.796
    6  13421     620    0.753 0.00331        0.747        0.760
    7  12801     956    0.697 0.00353        0.690        0.704
    8  11845    1374    0.616 0.00373        0.609        0.623
    9  10471    1853    0.507 0.00384        0.500        0.515
   10   8618    2733    0.346 0.00365        0.339        0.354
   11   5885    2715    0.187 0.00299        0.181        0.192
   12   3170    3170    0.000     NaN           NA           NA
>
> par(las=2) # make label text perpendicular to axis
> barplot((kmsurvival$n.event) ,xlab="Month", ylab="Electrical Failures" ,col="darkblue",
names.arg=c("January", "February", "March", "April", "May",
"June","July","August","September","October","November","December"), cex.names=0.7)
>
> par(las=2) # make label text perpendicular to axis
> plot((kmsurvival$n.event) ,xlab="Month", ylab="Electrical Failures" ,col="red",xaxt="n")
> axis(1, at=1:12, labels=month.name)
> lines((kmsurvival$n.event) ,xlab="Month", ylab="Electrical Failures", col="darkblue")
>
>
> # End of Kaplan-Meier non-parametric analysis
```





ELECTRICAL FAILURES ANALYSIS