```
##Across seasons
#Summer season1
r=read.csv("C:/Users/TEMP.DESKTOP4.004/Desktop/AirPollutionKrishnaDivya.csv")
r
y=r$PM10
x1=r$Pb
x2=r$Cd
x3=r$Cu
x4=r$Cr
x5=r$Zn
x6=r$NOx
x7=r$SO2
model1=lm(y~(x1+x2+x3+x4+x5+x6+x7))
model1
summary(model1)
shapiro.test(y)
plot(model1)



w=read.csv("C:/Users/TEMP.DESKTOP4.004/Desktop/winter.csv")
w
y=w$PM10
x1=w$Pb
x2=w$Cd
x3=w$Cu
x4=w$Cr
x5=w$Zn
x6=w$NOx
x7=w$SO2
```

```
model2=lm(y~(x1+x2+x3+x4+x5+x6+x7))
model2
summary(model2)
shapiro.test(y)
plot(model2)

m=read.csv("C:/Users/TEMP.DESKTOP4.004/Desktop/monsoon.csv")
m
y=m$PM10
x1=m$Pb
x2=m$Cd
x3=m$Cu
x4=m$Cr
x5=m$Zn
x6=m$NOx
x7=m$SO2
model3=lm(y~(x1+x2+x3+x4+x5+x6+x7))
model3
summary(model3)
shapiro.test(y)
plot(model3)

##places
#sndt
m=read.csv("C:/Users/TEMP.DESKTOP4.004/Desktop/sndt.csv")
m
y=m$PM10
x1=m$Pb
x2=m$Cd
x3=m$Cu
x4=m$Cr
```

```
x5=m$Zn
x6=m$NOx
x7=m$SO2
model1=lm(y~(x1+x2+x3+x4+x5+x6+x7))
model1
shapiro.test(y)
summary(model1)
plot(model1)


r=read.csv("C:/Users/TEMP.DESKTOP4.004/Desktop/mand.csv")
r
y=r$PM10
x1=r$Pb
x2=r$Cd
x3=r$Cu
x4=r$Cr
x5=r$Zn
x6=r$NOx
x7=r$SO2
model2=lm(y~(x1+x2+x3+x4+x5+x6+x7))
model2
shapiro.test(y)
summary(model2)
plot(model2)



a=read.csv("C:/Users/TEMP.DESKTOP4.004/Desktop/bora.csv")
a
```

```
y=a$PM10
x1=a$Pb
x2=a$Cd
x3=a$Cu
x4=a$Cr
x5=a$Zn
x6=a$NOx
x7=a$SO2
model3=lm(y~(x1+x2+x3+x4+x5+x6+x7))
model2
shapiro.test(y)
summary(model3)
plot(model3)

#anova for pm10
q1=r$Season
q2=r$Site
y=r$PM10
d=data.frame(y,q1,q2)
anv=aov(y~(q1+q2))
summary(anv)

#anova for pb
k1=r$Pb
q1=r$Season
q2=r$Site
d=data.frame(k1,q1,q2)
anv=aov(k1~(q1+q2))
summary(anv)

#anova for Cd
```

```
k2=r$Cd
q1=r$Season
q2=r$Site
d=data.frame(k2,q1,q2)
anv=aov(k2~(q1+q2))
summary(anv)

#anova for cu
k3=r$Cu
q1=r$Season
q2=r$Site
d=data.frame(k3,q1,q2)
anv=aov(k3~(q1+q2))
summary(anv)

#anova for cr
k4=r$Cr
q1=r$Season
q2=r$Site
d=data.frame(k4,q1,q2)
anv=aov(k4~(q1+q2))
summary(anv)

#anova for zn
k5r$Zn
q1=r$Season
q2=r$Site
d=data.frame(k5q1,q2)
anv=aov(k5(q1+q2))
summary(anv)
```

```
#anova for NOx
k6=r$NOx
q1=r$Season
q2=r$Site
d=data.frame(k5,q1,q2)
anv=aov(k6(q1+q2))
summary(anv)

#anova for SO2
k6=r$SO2
q1=r$Season
q2=r$Site
d=data.frame(k6,q1,q2)
anv=aov(k7(q1+q2))
summary(anv)
```