**Basic R Commands**

str(morley)

summary(morley)

plot(morley)

plot(morley$Expt)

par(mfrow=c(3,3), mar=c(2,5,2,1), las=1, bty="n")

hist(morley$Expt, main="Histogram",col="blue")

plot(morley$Expt, morley$Speed, main="Scatterplot",

xlab="Expt ", ylab="Speed", pch=1,

col=c("blue", "green"))

counts <- table(morley$Expt)

barplot(counts, main="Experiment",

xlab="no. of Expt",horiz=TRUE)

counts <- table(morley$Expt, morley$Run)

barplot(counts, main="Morley Distribution by Experiment and Speed",

xlab="Expt", col=c("darkblue","red"),

legend = rownames(counts))

counts <- table(morley$Expt, morley$Speed)

barplot(counts, main="Morley Distribution by Experiment number and Speed",

xlab="Experiment", col=c("darkblue","red"),

legend = rownames(counts), beside=TRUE)

slices <- c(10,20,30,40,50)

lbls <- c("A","B","C","D","E")

pie(slices, labels = lbls)

boxplot(Expt~Speed,data=morley, main="Light Speed data",

xlab="Expt", ylab="Speed")

**Output**

