```
############################
# Set Working Directory #
# Get your current working directory #
getwd() # Re-check the path for the working directory
# Change your current working directory #
setwd("/Users/huangweiting/coding/INTRODUCTION TO SCIENTIFIC COMPUTING SOFTWARE
/C2 ClassData")
getwd() # Re-check the path for the working directory
#####################################
# Import an example dataset #
##################################
dataset <- read.csv("C2 HW.csv")</pre>
                  #Check the variable format 看資料整體的data
#str(dataset)
                        #Check Dataset
#View(dataset)
#summary(dataset)
                        #Get the summary statistics about the object 給基礎統計數據(和資料
格式有關)
#Q1
#max
round(max(dataset$temperature,na.rm = TRUE),2)
round(min(dataset$temperature,na.rm = TRUE),2)
#mean
round(mean(dataset$temperature,na.rm=TRUE),2)
#Standard Deviation
round(sd(dataset$temperature,na.rm = TRUE),2)
#quantile
round(quantile(dataset$temperature, 0.25, na.rm = TRUE), 2)
round(quantile(dataset$temperature, 0.50, na.rm = TRUE), 2)
round(quantile(dataset$temperature, 0.75, na.rm = TRUE), 2)
#Q2
#max
round(aggregate(dataset$temperature, by=list(type=dataset$year),FUN=max),2)
#min
round(aggregate(dataset$temperature, by=list(type=dataset$year),FUN=min),2)
#mean
round(aggregate(dataset$temperature, by=list(type=dataset$year),FUN=mean),2)
#standard deviation
round(aggregate(dataset$temperature, by=list(type=dataset$year),FUN=sd),2)
#quantile
round(aggregate(dataset$temperature,
by=list(type=dataset$year),FUN=quantile,probs=c(0.25,0.50,0.75)),2)
dataset 2 <- read.csv("Tainan season.csv")</pre>
histogram(x= ~temperature|season,data =dataset 2, xlab = "temperature(Degree
Celsius)", ylab = "Count", type="count", layout=c(2,2), main='Histogram of temperature in
different seasons in Tainan during 2009-2011')
#04
dataset 2 <- read.csv("Tainan season 2009.csv")</pre>
histogram(x= ~temperature|season,data =dataset 2, xlab = "temperature(Degree
Celsius)", ylab = "Count", type="count", layout=c(2,2), main='Histogram of temperature in
different seasons in Tainan in 2009')
dataset_2 <- read.csv("Tainan_season_2010.csv")</pre>
histogram(x= ~temperature|season,data =dataset 2, xlab = "temperature(Degree
Celsius)", ylab = "Count", type="count", layout=c(2,2), main='Histogram of temperature in
different seasons in Tainan in 2010')
dataset_2 <- read.csv("Tainan_season_2011.csv")</pre>
histogram(x= ~temperature|season,data =dataset 2, xlab = "temperature(Degree
```

Celsius)", ylab = "Count", type="count", layout=c(2,2), main='Histogram of temperature in different seasons in Tainan in 2011')