

R Program To Create Plots For Palm EDA Signal (peda)

```
library(gdata)
library(xlsx)
pdf("C:/Users/Devarsh Dani/Desktop/PEDAAllSessions.pdf", height = 15, width = 15)
par(mfrow = c(7,2))
setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T??????PD", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  getwd()
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1,colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  reading = reading[order(reading$Time), , drop = FALSE]
  reading$PEDA <- as.numeric(as.character(reading$PEDA))
  reading$Time <- as.numeric(as.character(reading$Time))
  reading = reading[order(reading$Time), , drop = FALSE]
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
  yvector = reading[, "PEDA"]
  xvector = reading[, "Time"]
  xvector = c(xvector, NA)
  yvector = c(yvector, NA)
  #finalx = sort(xvector, decreasing = FALSE)
  vectorForgraphx = append(vectorForgraphx, xvector)
  vectorForgraphy = append(vectorForgraphy, yvector)
  n = n+1
  setwd("../..")
  unlink(dir[i])
  #i=i+1
}
plot(vectorForgraphx[seq(1, length(vectorForgraphx), by=1)], vectorForgraphy[seq(1,
length(vectorForgraphy), by=1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main =
"\t\tUncleaned\nHeart rate signal plotting for all PD")
legend("topright", legend = paste("n = ", n))

setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
```

R Program To Create Plots For Palm EDA Signal (peda)

```
dir = grep("T???/??PD", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1,colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
  reading$PEDA <- as.numeric(as.character(reading$PEDA))
  reading$Time <- as.numeric(as.character(reading$Time))
  reading = reading[order(reading$Time), , drop = FALSE]
  invalidValue1 = which(reading$PEDA < 10)
  invalidValue2 = which(reading$PEDA > 4700)
  if(length(invalidValue1) > 0 || length(invalidValue2) > 0) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  yvector = reading[, "PEDA"]
  xvector = reading[, "Time"]
  xvector = c(xvector, NA)
  yvector = c(yvector, NA)
  vectorForgraphx = append(vectorForgraphx, xvector)
  vectorForgraphy = append(vectorForgraphy, yvector)
  n = n+1
  setwd("../..")
  unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Breathing Rate", main =
"\t\tCleaned\nHeart rate signal plotting for all PD")
legend("topright", legend = paste("n = ", n))

setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T???/??RD", list.dirs(), value = TRUE)
```

R Program To Create Plots For Palm EDA Signal (peda)

```
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1,colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
  reading$PEDA <- as.numeric(as.character(reading$PEDA))
  reading$Time <- as.numeric(as.character(reading$Time))
  reading = reading[order(reading$Time), , drop = FALSE]
  yvector = reading[, "PEDA"]
  xvector = reading[, "Time"]
  xvector = c(xvector, NA)
  yvector = c(yvector, NA)
  vectorForgraphx = append(vectorForgraphx, xvector)
  vectorForgraphy = append(vectorForgraphy, yvector)
  n = n+1
  setwd("../..")
  unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart
rate signal plotting for all RD")
legend("topright", legend = paste("n = ", n))

setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T???/??RD", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
```

R Program To Create Plots For Palm EDA Signal (peda)

```
setwd("../..")
unlink(dir[i])
next
}
reading = read.xlsx(fil, sheetIndex = 1, colIndex = 2:3)
names(reading)[1] <- "Time"
names(reading)[2] <- "PEDA"
#reading = reading[-1,]
#row.names(reading) <- 1:nrow(reading)
reading$PEDA <- as.numeric(as.character(reading$PEDA))
reading$Time <- as.numeric(as.character(reading$Time))
reading = reading[order(reading$Time), , drop = FALSE]
invalidValue1 = which(reading$PEDA < 10)
invalidValue2 = which(reading$PEDA > 4700)
if(length(invalidValue1) > 0 || length(invalidValue2) > 0) {
  setwd("../..")
  unlink(dir[i])
  next
}
yvector = reading[, "PEDA"]
xvector = reading[, "Time"]
xvector = c(xvector, NA)
yvector = c(yvector, NA)
vectorForgraphx = append(vectorForgraphx, xvector)
vectorForgraphy = append(vectorForgraphy, yvector)
n = n+1
setwd("../..")
unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all RD")
legend("topright", legend = paste("n = ", n))
```

```
setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T????/??ND", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
  }
```

R Program To Create Plots For Palm EDA Signal (peda)

```
next
}
reading = read.xlsx(fil, sheetIndex = 1,colIndex = 2:3)
names(reading)[1] <- "Time"
names(reading)[2] <- "PEDA"
#reading = reading[-1,]
#row.names(reading) <- 1:nrow(reading)
reading$PEDA <- as.numeric(as.character(reading$PEDA))
reading$Time <- as.numeric(as.character(reading$Time))
reading = reading[order(reading$Time), , drop = FALSE]
yvector = reading[, "PEDA"]
xvector = reading[, "Time"]
xvector = c(xvector, NA)
yvector = c(yvector, NA)
vectorForgraphx = append(vectorForgraphx, xvector)
vectorForgraphy = append(vectorForgraphy, yvector)
n = n+1
setwd("../..")
unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all ND")
legend("topright", legend = paste("n = ", n))

setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T?????ND", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1,colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
  reading$PEDA <- as.numeric(as.character(reading$PEDA))
  reading$Time <- as.numeric(as.character(reading$Time))
  reading = reading[order(reading$Time), , drop = FALSE]
```

R Program To Create Plots For Palm EDA Signal (peda)

```
invalidValue1 = which(reading$PEDA < 10)
invalidValue2 = which(reading$PEDA > 4700)
if(length(invalidValue1) > 0 || length(invalidValue2) > 0) {
  setwd("../..")
  unlink(dir[i])
  next
}
yvector = reading[, "PEDA"]
xvector = reading[, "Time"]
xvector = c(xvector, NA)
yvector = c(yvector, NA)
vectorForgraphx = append(vectorForgraphx, xvector)
vectorForgraphy = append(vectorForgraphy, yvector)
n = n+1
setwd("../..")
unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all ND")
legend("topright", legend = paste("n = ", n))

setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T???/??CD", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1, colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
  reading$PEDA <- as.numeric(as.character(reading$PEDA))
  reading$Time <- as.numeric(as.character(reading$Time))
  reading = reading[order(reading$Time), , drop = FALSE]
  yvector = reading[, "PEDA"]
  xvector = reading[, "Time"]
  xvector = c(xvector, NA)
```

R Program To Create Plots For Palm EDA Signal (peda)

```
yvector = c(yvector,NA)
vectorForgraphx = append(vectorForgraphx, xvector)
vectorForgraphy = append(vectorForgraphy, yvector)
n = n+1
setwd("../..")
unlink(dir[i])
}
```

```
plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all CD")
legend("topright",legend = paste("n = ",n))
```

```
setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T???/??CD", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1,colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
  reading$PEDA <- as.numeric(as.character(reading$PEDA))
  reading$Time <- as.numeric(as.character(reading$Time))
  reading = reading[order(reading$Time), , drop = FALSE]
  invalidValue1 = which(reading$PEDA < 10)
  invalidValue2 = which(reading$PEDA > 4700)
  if(length(invalidValue1) > 0 || length(invalidValue2) > 0) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  yvector = reading[, "PEDA"]
  xvector = reading[, "Time"]
  xvector = c(xvector,NA)
  yvector = c(yvector,NA)
  vectorForgraphx = append(vectorForgraphx, xvector)
  vectorForgraphy = append(vectorForgraphy, yvector)
```

R Program To Create Plots For Palm EDA Signal (peda)

```
n = n+1
setwd("../..")
unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all CD")
legend("topright", legend = paste("n = ", n))

setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T??????ED", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1, colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
  reading$PEDA <- as.numeric(as.character(reading$PEDA))
  reading$Time <- as.numeric(as.character(reading$Time))
  reading = reading[order(reading$Time), , drop = FALSE]
  yvector = reading[, "PEDA"]
  xvector = reading[, "Time"]
  xvector = c(xvector, NA)
  yvector = c(yvector, NA)
  vectorForgraphx = append(vectorForgraphx, xvector)
  vectorForgraphy = append(vectorForgraphy, yvector)
  n = n+1
  setwd("../..")
  unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all ED")
legend("topright", legend = paste("n = ", n))
```


R Program To Create Plots For Palm EDA Signal (peda)

```
setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T????/?ED", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1,colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
  reading$PEDA <- as.numeric(as.character(reading$PEDA))
  reading$Time <- as.numeric(as.character(reading$Time))
  reading = reading[order(reading$Time), , drop = FALSE]
  invalidValue1 = which(reading$PEDA < 10)
  invalidValue2 = which(reading$PEDA > 4700)
  if(length(invalidValue1) > 0 || length(invalidValue2) > 0) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  yvector = reading[, "PEDA"]
  xvector = reading[, "Time"]
  xvector = c(xvector, NA)
  yvector = c(yvector, NA)
  vectorForgraphx = append(vectorForgraphx, xvector)
  vectorForgraphy = append(vectorForgraphy, yvector)
  n = n+1
  setwd("../..")
  unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all ED")
legend("topright", legend = paste("n = ", n))
```

R Program To Create Plots For Palm EDA Signal (peda)

```
setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T???/??MD", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1, colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
  reading$PEDA <- as.numeric(as.character(reading$PEDA))
  reading$Time <- as.numeric(as.character(reading$Time))
  reading = reading[order(reading$Time), , drop = FALSE]
  yvector = reading[, "PEDA"]
  xvector = reading[, "Time"]
  xvector = c(xvector, NA)
  yvector = c(yvector, NA)
  vectorForgraphx = append(vectorForgraphx, xvector)
  vectorForgraphy = append(vectorForgraphy, yvector)
  n = n+1
  setwd("../..")
  unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all MD")
legend("topright", legend = paste("n = ", n))

setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T???/??MD", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
```

R Program To Create Plots For Palm EDA Signal (peda)

```
setwd(dir[i])
fil = list.files(pattern = ".peda")
if(identical(fil, character(0))) {
  setwd("../..")
  unlink(dir[i])
  next
}
reading = read.xlsx(fil, sheetIndex = 1, colIndex = 2:3)
names(reading)[1] <- "Time"
names(reading)[2] <- "PEDA"
#reading = reading[-1,]
#row.names(reading) <- 1:nrow(reading)
reading$PEDA <- as.numeric(as.character(reading$PEDA))
reading$Time <- as.numeric(as.character(reading$Time))
reading = reading[order(reading$Time), , drop = FALSE]
invalidValue1 = which(reading$PEDA < 10)
invalidValue2 = which(reading$PEDA > 4700)
if(length(invalidValue1) > 0 || length(invalidValue2) > 0) {
  setwd("../..")
  unlink(dir[i])
  next
}
yvector = reading[, "PEDA"]
xvector = reading[, "Time"]
xvector = c(xvector, NA)
yvector = c(yvector, NA)
vectorForgraphx = append(vectorForgraphx, xvector)
vectorForgraphy = append(vectorForgraphy, yvector)
n = n+1
setwd("../..")
unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all MD")
legend("topright", legend = paste("n = ", n))
```

```
setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T?????FD", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
```

R Program To Create Plots For Palm EDA Signal (peda)

```
if(identical(fil, character(0))) {
  setwd("../..")
  unlink(dir[i])
  next
}
reading = read.xlsx(fil, sheetIndex = 1,colIndex = 2:3)
names(reading)[1] <- "Time"
names(reading)[2] <- "PEDA"
#reading = reading[-1,]
#row.names(reading) <- 1:nrow(reading)
reading$PEDA <- as.numeric(as.character(reading$PEDA))
reading$Time <- as.numeric(as.character(reading$Time))
reading = reading[order(reading$Time), , drop = FALSE]
yvector = reading[, "PEDA"]
xvector = reading[, "Time"]
xvector = c(xvector, NA)
yvector = c(yvector, NA)
vectorForgraphx = append(vectorForgraphx, xvector)
vectorForgraphy = append(vectorForgraphy, yvector)
n = n+1
setwd("../..")
unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all FD")
legend("topright", legend = paste("n = ", n))

setwd("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
dir = grep("T??????FD", list.dirs(), value = TRUE)
unlink("C:/Users/Devarsh Dani/Desktop/UH/Spring 2017/Statistical methods in
research/HW1/Other Study Data")
vectorForgraphx = NULL
vectorForgraphy = NULL
n=0
i=1
for(i in 1:length(dir)) {
  setwd(dir[i])
  fil = list.files(pattern = ".peda")
  if(identical(fil, character(0))) {
    setwd("../..")
    unlink(dir[i])
    next
  }
  reading = read.xlsx(fil, sheetIndex = 1,colIndex = 2:3)
  names(reading)[1] <- "Time"
  names(reading)[2] <- "PEDA"
  #reading = reading[-1,]
  #row.names(reading) <- 1:nrow(reading)
```

R Program To Create Plots For Palm EDA Signal (peda)

```
reading$PEDA <- as.numeric(as.character(reading$PEDA))
reading$Time <- as.numeric(as.character(reading$Time))
reading = reading[order(reading$Time), , drop = FALSE]
invalidValue1 = which(reading$PEDA < 10)
invalidValue2 = which(reading$PEDA > 4700)
if(length(invalidValue1) > 0 || length(invalidValue2) > 0) {
  setwd("../..")
  unlink(dir[i])
  next
}
yvector = reading[, "PEDA"]
xvector = reading[, "Time"]
xvector = c(xvector, NA)
yvector = c(yvector, NA)
vectorForgraphx = append(vectorForgraphx, xvector)
vectorForgraphy = append(vectorForgraphy, yvector)
n = n+1
setwd("../..")
unlink(dir[i])
}

plot(vectorForgraphx[seq(1, length(vectorForgraphx), 1)], vectorForgraphy[seq(1,
length(vectorForgraphy), 1)], lty = 1, type = "l", xlab = "Time", ylab = "Heart Rate", main = "Heart
rate signal plotting for all FD")
legend("topright", legend = paste("n = ", n))

dev.off()
```