**PROJECT CODE**

**Program 1:**

Stock analysis:

>ABCstock<-read.csv(file.choose(), header=TRUE, sep=",")

> ABCstock

> closingprice=ts(ABCstock$Close, start = c(2000,1), frequency = 12)

> plot(closingprice)

> openingprice=ts(ABCstock$Open, start = c(2000,1), frequency = 12)

> plot(openingprice)

> volumeofshares=ts(ABCstock$Volume,start = c(2000,1), frequency = 12)

> plot(volumeofshares)

**Program 2:**

Shark attack analysis:

>sharkattacks = read.csv(file.choose(), header=TRUE, sep=",")

> install.packages("stringr", repos='http://cran.us.r-project.org')

>library(stringr)

> occurancedate=sharkattacks[[1]]

> year2014=sum(str\_count(occurancedate, "/14"))

> year2014

[1] 32

> year2013=sum(str\_count(occurancedate, "/13"))

>year2013

[1] 42

> year2012

[1] 39

> year=c("year2014", "year2013", "year2012")[which.max(c(year2014, year2013, year2012))]

> year

[1] "year2013"

>location=sharkattacks[[3]]

> unique(location)

Masonboro\_island = sum(str\_count(location, "Masonboro island"))

> okaloosa\_island = sum(str\_count(location, "okaloosa island"))

> sunset\_beach = sum(str\_count(location, "sunset beach"))

> table\_beach = sum(str\_count(location, "table beach"))

> folly\_beach = sum(str\_count(location, "folly beach"))

> new\_smyrna = sum(str\_count(location, "new smyrna"))

> fort\_lauderdals = sum(str\_count(location, "fort lauderdals"))

> indialantic = sum(str\_count(location, "indialantic"))

> coligny\_beach = sum(str\_count(location, "coligny beach"))

> tybee\_island = sum(str\_count(location, "tybee island"))

> surfside\_beach = sum(str\_count(location, "surfside beach"))

> ponce\_inlet = sum(str\_count(location, "ponce inlet"))

> bethel\_shoals = sum(str\_count(location, "bethel shoals"))

> apalanchicola\_beach = sum(str\_count(location, "apalanchicola beach"))

> ssateague\_national\_seashore = sum(str\_count(location, "ssateague national seashore"))

> juan\_ponce\_de\_leon\_island = sum(str\_count(location, "juan ponce de leon island "))

> jacksonville\_beach = sum(str\_count(location, "jacksonville beach"))

> atlantic\_beavch = sum(str\_count(location, "atlantic beavch"))

> which.max(c(Masonboro\_island,okaloosa\_island, sunset\_beach, table\_beach, folly\_beach, new\_smyrna, jacksonville\_beach, atlantic\_beavch,fort\_lauderdals,indialantic, coligny\_beach, tybee\_island, surfside\_beach, ponce\_inlet, bethel\_shoals, apalanchicola\_beach, ssateague\_national\_seashore, juan\_ponce\_de\_leon\_island))

[1] 1

> Masonboro\_island

[1] 13

> n\_occur <- data.frame(table(sharkattacks$Location))

> n\_occur