makeCacheMatrix <- function(x = matrix()) {

inv <- NULL

set <- function(y) {

x <<- y

inv <<- NULL

}

get <- function() x

setIverse <- function(inverse) inv <<- inverse

getInverse <- function() {inv}

list(set = set, get = get,

setInverse = setInverse,

getInverse = getInverse)

}

cacheSolve <- function(x, ...) {

inv <- x$getInverse()

if(!is.null(inv)) {

message("getting cached data")

return(inv)

}

mat <- x$get()

inv <- solve(mat, ...)

x$setInverse(inv)

inv

}

>source("makeCacheMatrix.R")

> pmartix <- makeCacheMatrix(matrix(1:4, nrow = 2, ncol = 2))