 Scoping means how R finds the value of a variable when it is used inside a function.

 Lexical scoping (also called static scoping) means: R looks for a variable’s value based on **where the function was defined, not where it is called**.

 The environment where a function is created determines how R resolves variables inside it.

## Put comments here that give an overall description of what your

## functions do

## Write a short comment describing this function

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

inv <- NULL

set <- function(y){

x <<- y

inv <<- NULL

}

get <- function() x

setInverse <- function(inverse) inv <<- inverse

getInverse <- function() inv

list(set = set, get = get,

setInverse = setInverse,

getInverse = getInverse)

}

## Write a short comment describing this function

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

## Return a matrix that is the inverse of '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("cachematrix.R")