> addition <- function (number1, number2) {

+

+ return (number1 + number2)

+

+

+ }

> addition (45,23)

[1] 68

> subtraction <- function (number1, number2) {

+

+ return (number1 - number2)

+

+

+ }

> subtraction (67, 56)

[1] 11

> multiplication <- function (first, second) {

+ return (first \* second)

+ }

> multiplication (24, 35)

[1] 840

> multiplication (-12,23)

[1] -276

> division <- function (first, second) {

+ return (first / second)

+

+ }

> division (345, 15)

[1] 23

> division (-236, 4)

[1] -59

> power <- function (base, power) {

+ return (base\*\*power)

+ }

> power (3,10)

[1] 59049

> power (-2, -10)

[1] 0.0009765625

> power (2,10)

[1] 1024

> square <- function(number) {

+ return (number \*\* 2)

+

+ }

> square (24)

[1] 576

> square (-12)

[1] 144

> cube <- function(numb) {

+ return (numb \*\*3)

+

+ }

> cube (88)

[1] 681472

> cube (2)

[1] 8

> square root <- function(number) {

+ if (number > 0) {

+ return (number \*\* 0.5)

+ }

+ else if (number == 0) {

+ return (0)

+ }

+ else if (number < 0) {

+ return ("in")

+

+ }

+ }

> squareroot(169)

[1] 13

> squareroot(-16)

[1] "inf"

> squareroot(346)

[1] 18.60108

> factorial <- function (number){

+ number = as.integer(readline(prompt="Please Enter a number here: "))

+ factorial = 1

+ if(number < 0) {

+ print("That is a negative number, input a poitive number")

+ } else if(number == 0) {

+ print("The factorial of 0 is 1")

+ } else {

+ for(i in 1:number) {

+ factorial = factorial \* i

+ }

+ print(paste("The factorial of", number ,"is",factorial))

+ }

+ }

> factorial(5)

Please Enter a number here: 5

[1] "The factorial of 5 is 120"

> factorial(n)

Please Enter a number here: 7

[1] "The factorial of 7 is 5040"

> factorial(n)

Please Enter a number here: -3

[1] "That is a negative number, input a poitive number"

> abs <- function(number) {

+ return (number)

+

+ }

> abs(45)

[1] 45

> abs(-3)

[1] -3

> source('C:/Users/Batsuuri/Desktop/R\_files/CA\_4\_Darren\_r.R')