In Class Assignment 4

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# 1.)

# For Loop

x<- 1 print(x) acc<- 0 xold <- 0 for (i in 1:14){ acc <- xold + x xold <- x x <- acc print(x) }

# While Loop

x<- 1 print(x) acc<- 0 xold <- 0 while(x <= 377){ acc <- xold +x xold <- x x <- acc print(x) }

# Repeat Loop

x<- 1 print(x) acc<- 0 xold <- 0 repeat{ acc <- xold +x xold <- x x <- acc print(x) if(x == 610){ break } }

# 2.)

X <- 50 Y <- 2 mymat <- matrix(rnorm(100,mean = X, sd = Y), 10, 10) print(mymat) apply(mymat, 1, FUN = mean) # Mean by row apply(mymat, 2, FUN = mean) # Mean by column apply(mymat, 1, FUN = sd) # Std. Deviation by row apply(mymat, 2, FUN = sd) # Std. Deviation by column

# 3.)

# a.)

TitanicSex <- apply(Titanic, 2, FUN = sum) print (TitanicSex)

# b.)

apply(Titanic, c(2,4), FUN = sum)

# c.)

apply(Titanic, c(2:3), FUN = sum)