**208W1A1299 R LAB TASK 2**

**CODE :**

# vectors

x = c(1,2,3,4,5,6,7,8)

x

x+1

x^10

sqrt(x)

class(x)

# Colon Operator

1:5

5:1

-1:5

5:-1

a = 1:7

b = -5:1

a

b

a+b

a/b

0/100

100/0

0/0

c = 1:4

d = 2:5

c^d

a

b

c

d

a+c

b+d

length(a)

length(a+b+c+d)

a+c(0.1,0.2,0.3)

a<3

b>6

d<c

# any & all inbuilt functions

any(a>1)

any(c>100)

all(d>10)

nchar(q)

nchar(a)

a

a[4]

a[2:4]

a[c(1,5)]

e = c(34,12,67,34,11,21,67,89)

e

e[c(3,6)]

d

names(d) = c("col1","col2","col3","col4")

d

q1<- c("Hockey", "Football", "Baseball", "Curling", "Rugby")

q1

q2 = c(q1,"Hockey", "Lacrosse", "Hockey", "Water Polo", "Hockey", "Lacrosse")

q2

qfactor = as.factor(q2)

qfactor

as.numeric(qfactor)