**MENTOR ASSIGNMENT**

Create five vectors of different data type each:

> A<-c(1,2,3,4,5)

> b<-c("Hai","Hello","Name","Age","location")

> c<-c(TRUE,FALSE,FALSE,TRUE,TRUE)

> d=c(1:10)

> e<-c(2+4i,1+0i,5+5i)

> A

[1] 1 2 3 4 5

> b

[1] "Hai" "Hello" "Name" "Age" "location"

> c

[1] TRUE FALSE FALSE TRUE TRUE

> d

[1] 1 2 3 4 5 6 7 8 9 10

> e

[1] 2+4i 1+0i 5+5i

➢ Apply logic operations

> c=!c

> c

[1] FALSE TRUE TRUE FALSE FALSE

> a>5 | a<2

Error: object 'a' not found

> A>5 | A<2

[1] TRUE FALSE FALSE FALSE FALSE

> A>5 & A<2

[1] FALSE FALSE FALSE FALSE FALSE

➢ Compute max, min and sum for numerical vector

> A

[1] 1 2 3 4 5

> max(A)

[1] 5

> min(A)

[1] 1

> sum(A)

[1] 15

➢ Sort the character vector

> b=sort(b)

> b

[1] "Age" "Hai" "Hello" "location" "Name"

➢ Identify the data type by applying function

> class(A)

[1] "numeric"

> class(b)

[1] "character"

> class(c)

[1] "logical"

> class(d)

[1] "integer"

> class(e)

[1] "complex"

➢ Compute the length of values from each vector

> lengths(A)

[1] 1 1 1 1 1

> lengths(b)

[1] 1 1 1 1 1

> lengths(c)

[1] 1 1 1 1 1

> lengths(d)

[1] 1 1 1 1 1 1 1 1 1 1

> lengths(e)

[1] 1 1 1

➢ Check the metadata