*R - ASSIGNMENT 3 CODES*

**Create the vectors**

**(a) (2, 3, ... , 29, 30)**

**Code :** seq(2,30,1)

**(b) (30, 29, ... , 2)**

**Code:** seq(30,2,-1)

**(c) (1, 2, 3, .... , 29, 30, 29, 28, , 2, 1)**

**Code**: x <- c(1:29, seq(28,1,-1))

**(d) (4, 6, 3) and assign it to the name dev.**

**Code:** dev <- c(4,6,3)

**For parts (e), (f) and (g) .**

**(e) (5, 6, 7, 5, 6, 7, , 5, 6, 7) where there are 10 occurrences of 5.**

**Code:** rep(c(5,6,7),10)

**(f) (5, 6, 7, 5, 6, 7, , 5, 6, 7, 5) where there are 11 occurrences of 5, 10 occurrences of 6 and 10**

**occurrences of 7.**

r <- c(rep(c(5,6,7),11),4)

**(g) (4, 4, , 4, 6, 6, , 6, 3, 3, , 3) where there are 10 occurrences of 4, 20 occurrences of 6 and 30**

**occurrences of 3.**

r <- c(rep(4,10),rep(6,20),rep(3,30))

**2. Create a vector of the values of eX sin(x) at x = 3, 3.1, 3.2, , 6.**

Code : x<-seq(3,6,by = 0.1)

eX <- sin(x)

**4, Ans a) v2 <- paste(“label”,1:30,seq = “ “)**

**Ans b) v3 <- paste(“fn”,1:30,seq =””)**