**Practical 7**

**Introduction to R**

1. Let, x <- c(5,2,1,4) and y <- rep(1,5) then find the output of the followings in R,
   1. sum(x)
   2. range(x)
   3. length(y)
   4. sum(y)
   5. c(x,y,13)
   6. x[4] \* y[2]
   7. x[2:4] \* x[1:3]
   8. (x <= 2)
   9. (x[x <=2])
   10. rep(1:4,2)
   11. rep(1:4,each = 2)
   12. rep(1:4,c(2,2,2,2))
   13. rep(1:4,c(2,1,2,1))
   14. rep(1:4,each = 2,len = 10)
   15. 2:3^2
   16. seq(2,-3) \* c(-1,1)
2. Let a <- LETTERS[1:3], evaluate
   1. paste(‘V’,a,sep=”:”)
   2. nchar(paste(a, collapse = ‘<’))
3. Let u <- c(TRUE,FALSE,TRUE,TRUE), evaluate
   1. !u
   2. u | !u
   3. any(u)
4. Generate following vectors,
   1. 10,9,8,7,6,….,0
   2. 1,1,1,4,4,4,9,9,9,16,16,16,………..,100,100,100
   3. “a1”, “b2”, “c3”, “d4”,……..,”p16”

