```
1)function example
a)
acadgild<-function()
{
c=2
print(c)
acadgild()
In the above example we call the function without passing any arguments
value is specified inside the function body
acadgild<-function()
  print(c)
acadgild()
b)
acadgild<-function(a,b)
{
a=a*2
b=b*3
c(a,b)
acadgild(2,4)
```

acadgild(b=5,a=3)

in the above example we call the function by passing the arguments based on position of arguments and we call thefunction by passing the arguments bases on name.

SO THESE ARE THE WAYS OF CALLING A FUNCTION IN R

2)Recycling of elements means it repeats or recycles elements of vector with lesser elements whenever involved in an process or operation.

3) example for recycling

a)

x <- c(1,2,3)

y <- c(4,5,6,7,8)

r<-x+y

output: it repeats 1,2 to add with 7,8 of vector y

5,7,9,8,10 with a warning message that says longer object length is not a multiple of shorter object length

```
> x <- c(1,2,3)
 > y <- c(4,5,6,7,8)
 > r<-x+y
Warning message:
In x + y: longer object length is not a multiple of shorter object length
 [1] 5 7 9 8 10
b)
t < -matrix(1:6, dim < -c(2,3))
j < -c(2,3)
k<-t+j
k
output: it repeats 2,3 twice from vector to add with 3,4,5,6 of matrix t
357 579
t<-matrix(1:6,dim<-c(2,3))
j < -c(2,3)
k<-t+j
   [,1] [,2] [,3]
          7
4)output of following script
v < -c(2,5.5,6)
t < -c(8,3,4)
print(v%/%t) here we divide v with t and get the quotient o/p is:(0 1 1)
```

```
v<-c(2,5.5,6)
t<-c(8,3,4)
print(v%/%t)
1] 0 1 1
print(t%/%v)
1] 4 0 0
```

5)i have created 10 excel files with different data and read that using the for loop and then created a data frame from that.

```
for(j in 1)
{
 jjj<-list()
 for(i in 1:4)
 {
  excel<- list.files(pattern='*.xlsx')
  for(k in 1)
    g<-list(excel(file.list[[i]],1,header=TRUE))
  }
  jjj[i]<-list(g[[k]])
 p<-as.data.frame(jjj)
 print(p)
```

```
NOTATION TO THE PARTY OF THE SOLD BEING
> library(xlsx)
> setwd("C:/Users/Owner/Documents/newwd")
> for(j in 1)
+ {
    jjj<-list()
+
+
    for(i in 1:10)
+
      excel<- list.files(pattern='*.xlsx')
      for(k in 1)
        q<-list(read.xlsx(excel[[i]],1,header=TRUE))</pre>
      jjj[i]<-list(g[[k]])
    }
+
    p<-as.data.frame(jjj)</pre>
+
    print(p)
   name age Alphabet hello age.1 ph.no last.na height weight colour
1
      s
          55
                           1
                                 11
                                        89
                                               hat
                                                         6
                                                                55
                    А
                                                                         W
2
      h
         22
                     В
                           2
                                 12
                                        35
                                               bat
                                                         7
                                                                22
                                                                         b
3
                           3
                                                         2
      i
         11
                    C
                                 13
                                        78
                                               cat
                                                                55
                                                                         W
4
         33
                           4
                                                         5
                                                                         b
                    D
                                 14
                                        36
                                               yat
                                                                66
      V
5
      a 44
                           5
                                                        36
                    Ε
                                 15
                                       45
                                               pat
                                                                99
6
      r
         55
                     F
                           6
                                 16
                                       268
                                               lat
                                                         5
                                                                77
                                                                         b
                           7
7
         88
                    G
                                 17
                                       586
                                               mat
                                                         4
                                                                88
      a
                                                                         W
8
          99
                           8
      j
j
                    Н
                                 18
                                       23
                                               dat
                                                         6
                                                                22
                                                                         b
9
                           9
                                        22
                                              datt
                                                         2
                                                                33
          33
                                 19
                     Ι
                                                                         W
                          10
                                 20
                                              katt
                                                         9
                                                                21
                                                                         b
10
          11
                     J
                                        33
```