List\_assignment.R

Harsha

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#create list named Test\_Det using above vectors  
Test\_No=1:5  
Test\_No

## [1] 1 2 3 4 5

Test\_name=c("ser1","ser2","ser3","ser4","ser5")  
Test\_name

## [1] "ser1" "ser2" "ser3" "ser4" "ser5"

Attempted=c(TRUE,TRUE,FALSE,TRUE,TRUE)  
Attempted

## [1] TRUE TRUE FALSE TRUE TRUE

mark=c(60,65,NA,68,70)  
mark

## [1] 60 65 NA 68 70

Test\_Det=list(Test\_No,Test\_name,Attempted,mark)  
print(Test\_Det)

## [[1]]  
## [1] 1 2 3 4 5  
##   
## [[2]]  
## [1] "ser1" "ser2" "ser3" "ser4" "ser5"  
##   
## [[3]]  
## [1] TRUE TRUE FALSE TRUE TRUE  
##   
## [[4]]  
## [1] 60 65 NA 68 70

#assign names to the elements  
names(Test\_Det)<-c("integer","string","Logical","double")  
print(Test\_Det)

## $integer  
## [1] 1 2 3 4 5  
##   
## $string  
## [1] "ser1" "ser2" "ser3" "ser4" "ser5"  
##   
## $Logical  
## [1] TRUE TRUE FALSE TRUE TRUE  
##   
## $double  
## [1] 60 65 NA 68 70

#Display name of tests of the list Test\_Det  
Test\_Det$string

## [1] "ser1" "ser2" "ser3" "ser4" "ser5"

print(Test\_Det$string)

## [1] "ser1" "ser2" "ser3" "ser4" "ser5"

#Display name of test attempted by sakshi  
complete.cases(Test\_Det)

## [1] TRUE TRUE FALSE TRUE TRUE

# Display total marks scored by sakshi  
sum<-sum(mark,na.rm=TRUE)  
sum

## [1] 263

#Part B  
Test\_No=c(6:10)  
Test\_Name=c("Ser6","Ser7","Ser8","Ser9","Ser10")  
Attempted=c(TRUE,TRUE,FALSE,TRUE,FALSE)  
Mark2= list(68,70,71,72,75)  
remarks<-c('Needs\_Impr','Good','No\_Comments','Good','No\_Comments')  
  
#Creating list  
Test\_Det2=list(Test\_No,Test\_Name,Attempted,Mark2,remarks)  
names(Test\_Det2)=c("Test\_No","Test\_Name","Attempted","Mark2","remarks")  
print(Test\_Det2)

## $Test\_No  
## [1] 6 7 8 9 10  
##   
## $Test\_Name  
## [1] "Ser6" "Ser7" "Ser8" "Ser9" "Ser10"  
##   
## $Attempted  
## [1] TRUE TRUE FALSE TRUE FALSE  
##   
## $Mark2  
## $Mark2[[1]]  
## [1] 68  
##   
## $Mark2[[2]]  
## [1] 70  
##   
## $Mark2[[3]]  
## [1] 71  
##   
## $Mark2[[4]]  
## [1] 72  
##   
## $Mark2[[5]]  
## [1] 75  
##   
##   
## $remarks  
## [1] "Needs\_Impr" "Good" "No\_Comments" "Good" "No\_Comments"

#Changing value  
List1<-Test\_Det2$Attempted[5]<-TRUE  
List1

## [1] TRUE

Test\_Det2

## $Test\_No  
## [1] 6 7 8 9 10  
##   
## $Test\_Name  
## [1] "Ser6" "Ser7" "Ser8" "Ser9" "Ser10"  
##   
## $Attempted  
## [1] TRUE TRUE FALSE TRUE TRUE  
##   
## $Mark2  
## $Mark2[[1]]  
## [1] 68  
##   
## $Mark2[[2]]  
## [1] 70  
##   
## $Mark2[[3]]  
## [1] 71  
##   
## $Mark2[[4]]  
## [1] 72  
##   
## $Mark2[[5]]  
## [1] 75  
##   
##   
## $remarks  
## [1] "Needs\_Impr" "Good" "No\_Comments" "Good" "No\_Comments"

#assign null values  
Test\_Det2[4][5]="NULL"

## Warning in Test\_Det2[4][5] = "NULL": number of items to replace is not a  
## multiple of replacement length

Test\_Det2

## $Test\_No  
## [1] 6 7 8 9 10  
##   
## $Test\_Name  
## [1] "Ser6" "Ser7" "Ser8" "Ser9" "Ser10"  
##   
## $Attempted  
## [1] TRUE TRUE FALSE TRUE TRUE  
##   
## $Mark2  
## $Mark2[[1]]  
## [1] 68  
##   
## $Mark2[[2]]  
## [1] 70  
##   
## $Mark2[[3]]  
## [1] 71  
##   
## $Mark2[[4]]  
## [1] 72  
##   
## $Mark2[[5]]  
## [1] 75  
##   
##   
## $remarks  
## [1] "Needs\_Impr" "Good" "No\_Comments" "Good" "No\_Comments"

#6  
Test\_Det2[[5]][3]="NULL"  
Test\_Det2

## $Test\_No  
## [1] 6 7 8 9 10  
##   
## $Test\_Name  
## [1] "Ser6" "Ser7" "Ser8" "Ser9" "Ser10"  
##   
## $Attempted  
## [1] TRUE TRUE FALSE TRUE TRUE  
##   
## $Mark2  
## $Mark2[[1]]  
## [1] 68  
##   
## $Mark2[[2]]  
## [1] 70  
##   
## $Mark2[[3]]  
## [1] 71  
##   
## $Mark2[[4]]  
## [1] 72  
##   
## $Mark2[[5]]  
## [1] 75  
##   
##   
## $remarks  
## [1] "Needs\_Impr" "Good" "NULL" "Good" "No\_Comments"

#7  
new\_list=append(Test\_Det,Test\_Det2)  
new\_list

## $integer  
## [1] 1 2 3 4 5  
##   
## $string  
## [1] "ser1" "ser2" "ser3" "ser4" "ser5"  
##   
## $Logical  
## [1] TRUE TRUE FALSE TRUE TRUE  
##   
## $double  
## [1] 60 65 NA 68 70  
##   
## $Test\_No  
## [1] 6 7 8 9 10  
##   
## $Test\_Name  
## [1] "Ser6" "Ser7" "Ser8" "Ser9" "Ser10"  
##   
## $Attempted  
## [1] TRUE TRUE FALSE TRUE TRUE  
##   
## $Mark2  
## $Mark2[[1]]  
## [1] 68  
##   
## $Mark2[[2]]  
## [1] 70  
##   
## $Mark2[[3]]  
## [1] 71  
##   
## $Mark2[[4]]  
## [1] 72  
##   
## $Mark2[[5]]  
## [1] 75  
##   
##   
## $remarks  
## [1] "Needs\_Impr" "Good" "NULL" "Good" "No\_Comments"