Q8. Write a R program to create a data frame using two given vectors and display the duplicate elements.

Program:-

emp<-data.frame(eid=c(1:4),enames=c("AAA","BBB","CCC","DDD"),esalary=c(60,66,67,68))

emp

str(emp)

summary(emp)

names(emp)

#to add a column height

height<-c(44,45,66,78)

emp$height<-height

emp

sort(emp$height)

rank<-order(emp$height)

emp$height

emp[rank,]

#for Decreasing Order

emp[order(emp$esalary,decreasing=TRUE)]

output:-

> emp<-data.frame(eid=c(1:4),enames=c("AAA","BBB","CCC","DDD"),esalary=c(60,66,67,68))

> emp

eid enames esalary

1 1 AAA 60

2 2 BBB 66

3 3 CCC 67

4 4 DDD 68

> str(emp)

'data.frame': 4 obs. of 3 variables:

$ eid : int 1 2 3 4

$ enames : Factor w/ 4 levels "AAA","BBB","CCC",..: 1 2 3 4

$ esalary: num 60 66 67 68

> summary(emp)

eid enames esalary

Min. :1.00 AAA:1 Min. :60.00

1st Qu.:1.75 BBB:1 1st Qu.:64.50

Median :2.50 CCC:1 Median :66.50

Mean :2.50 DDD:1 Mean :65.25

3rd Qu.:3.25 3rd Qu.:67.25

Max. :4.00 Max. :68.00

> names(emp)

[1] "eid" "enames" "esalary"

> height<-c(44,45,66,78)

> emp$height<-height

> emp

eid enames esalary height

1 1 AAA 60 44

2 2 BBB 66 45

3 3 CCC 67 66

4 4 DDD 68 78

> sort(emp$height)

[1] 44 45 66 78

> rank<-order(emp$height)

> emp$height

[1] 44 45 66 78

> emp[rank,]

eid enames esalary height

1 1 AAA 60 44

2 2 BBB 66 45

3 3 CCC 67 66

4 4 DDD 68 78

> #for Decreasing Order

> emp[order(emp$esalary,decreasing=TRUE)]

height esalary enames eid

1 44 60 AAA 1

2 45 66 BBB 2

3 66 67 CCC 3

4 78 68 DDD 4