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Question 1 - Data frame

(a) Create data frame

```
> emp.newdata <- data.frame(
     emp id = c (1001, 4901, 3120, 4340, 2347),
    emp name = c("Rick", "Dan", "Michalle", "Ryan", "Gary"),
    emp salary = c(6230, 5150, NA, 7290, 8435),
    department = c("A", "B", "C", "D", "E"),
    stringsAsFactors = FALSE
+ )
> print(emp.newdata)
  emp id emp name emp salary department
   1001
             Rick
                        6230
                                      A
   4901
                        5150
                                      В
             Dan
3 3120 Michalle
                                      C
                          NA
4
   4340
           Ryan
                       7290
                                      D
   2347 Gary
                                      E
                        8435
```

```
a- Fetch name for id = 2347
```

```
> datarev<- subset(emp.newdata,emp_id==2347)$emp_name
> print(datarev)
[1] "Gary"
```

b- Add new row

```
> emp.newdata<-rbind(emp.newdata,data.frame(emp id=2313,emp name="Sandy",salary$
> print(emp.newdata)
 emp id emp name salary department
 1001 Rick 6230
2 4901
          Dan 5150
                            В
3 3120 Michelle
                NA
                           C
         Ryan 7290
4 4340
                            D
         Gary 8435
  2347
                            E
5
   2313
         Sandy 5341
```

D –fetch the coloum

```
> emp.newdata<-emp.newdata[1:2]
    > print(emp.newdata)
     emp id emp name
    1 1001
                 Rick
    2 4901
                 Dan
       3120 Michelle
    4 4340
                Ryan
    5 2347 Gary
    6 2313 Sandy
    >
    > str(emp.newdata)
    'data.frame': 6 obs. of 2 variables:
    $ emp id : num 1001 4901 3120 4340 2347 ...
     $ emp name: chr "Rick" "Dan" "Michelle" "Ryan" ...
    >
Question 2-
  (a) Create vector
> student<-c("AMIT", "ROHIT", "ABHISHEK", "PRABODH")</pre>
> print(student)
[1] "AMIT" "ROHIT" "ABHISHEK" "PRABODH"
B -sort
> r<-c("amit", "prabodh", "rohit", "abhi")</pre>
> sort(r)
[1] "abhi" "amit" "prabodh" "rohit"
>
```

Question 3-

Crteate vector

```
> c < - rep(1:17, times = 1:17)
[1] 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 6 6 6 6 6 7 7 7
[26] 7 7 7 8 8 8 8 8 8 8 8 9 9 9 9 9 9 9 9 10 10 10 10 10
[151] 17 17 17
>
.
  B -
  > matrix(1:15,5,3,dimnames = list(c("a","b","c","d","e"),c("a","b","c")))
   a b c
  a 1 6 11
  b 2 7 12
  c 3 8 13
  d 4 9 14
  e 5 10 15
  >
```