

DSR Lab Internals :

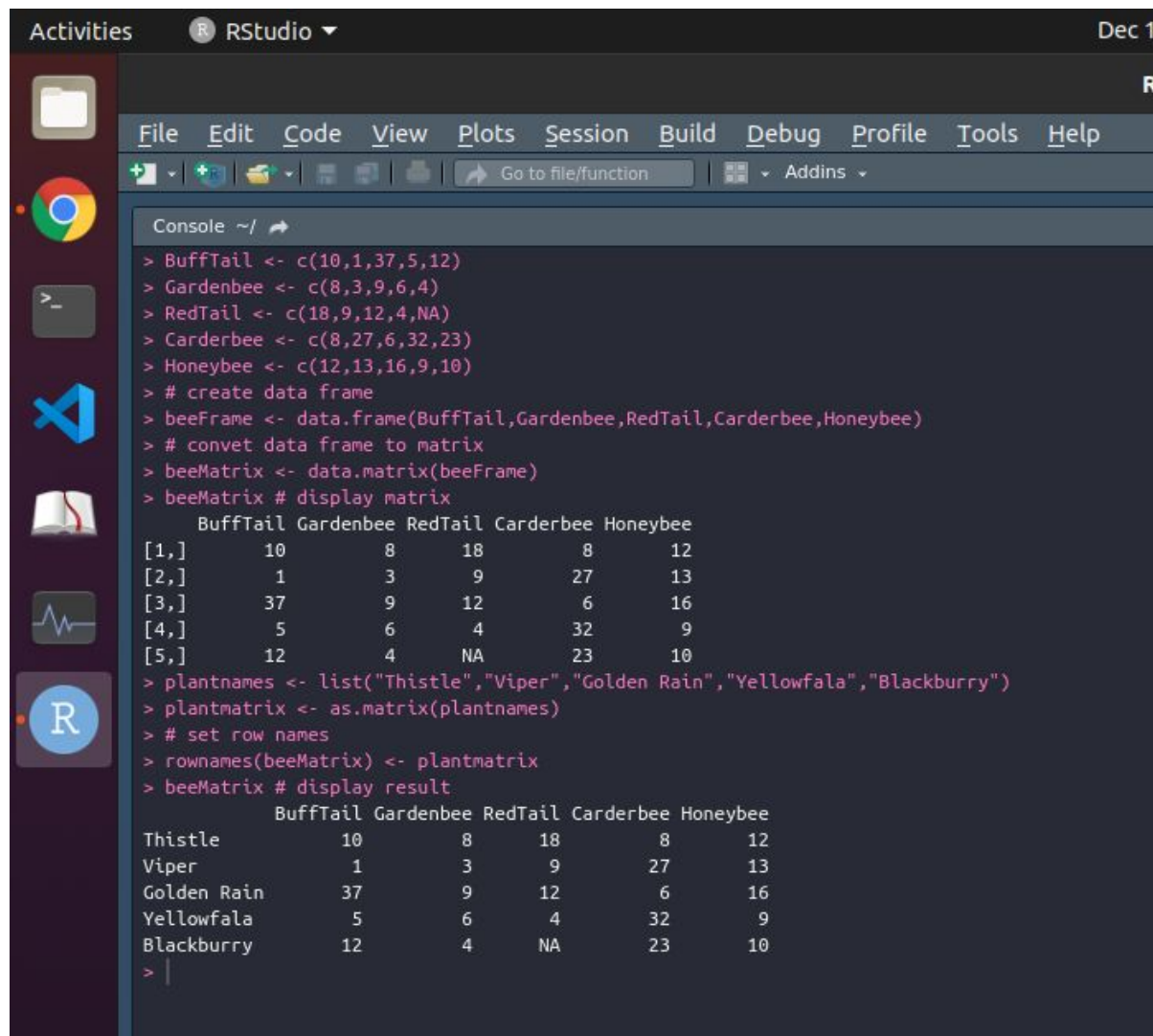
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Batch: B3

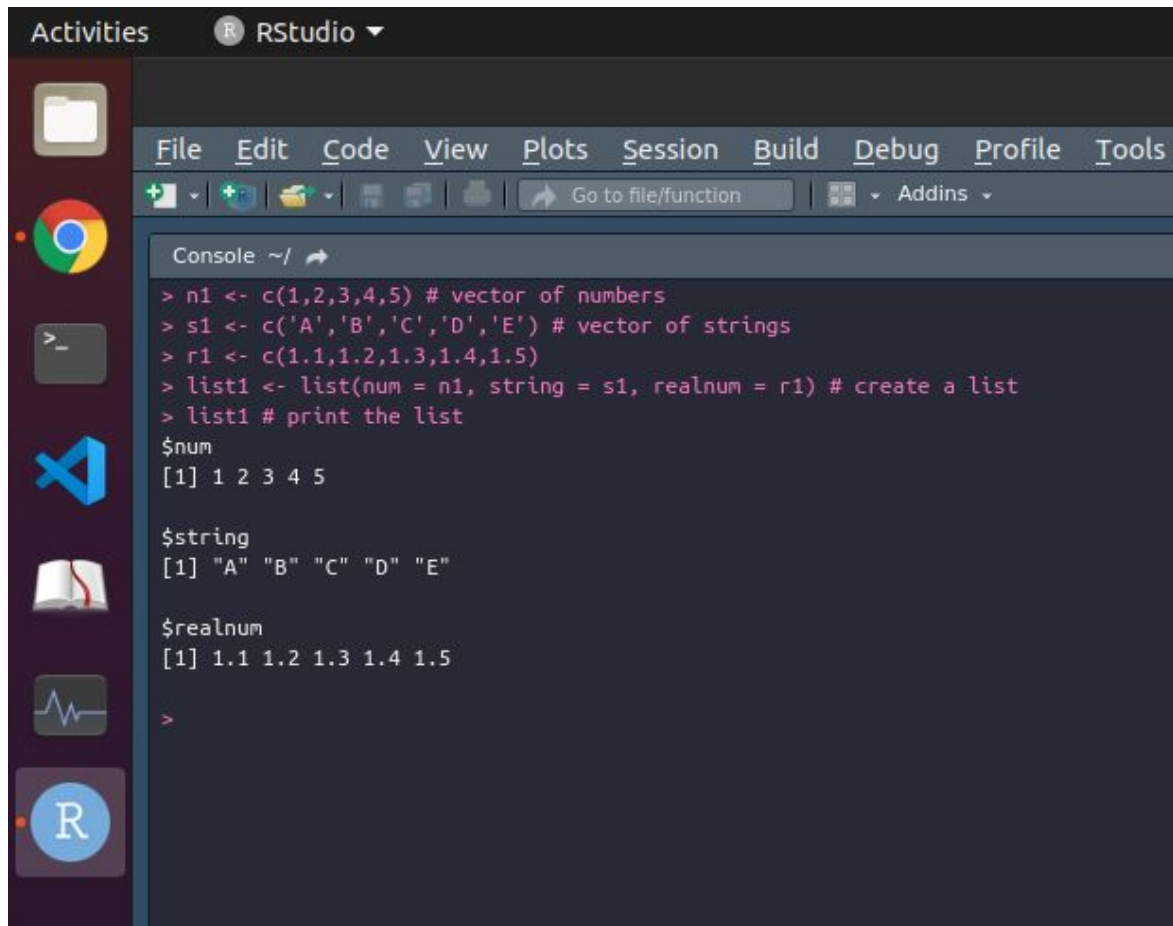
Result Screenshots :

Q. a)



```
> BuffTail <- c(10,1,37,5,12)
> Gardenbee <- c(8,3,9,6,4)
> RedTail <- c(18,9,12,4,NA)
> Carderbee <- c(8,27,6,32,23)
> Honeybee <- c(12,13,16,9,10)
> # create data frame
> beeFrame <- data.frame(BuffTail,Gardenbee,RedTail,Carderbee,Honeybee)
> # convert data frame to matrix
> beeMatrix <- data.matrix(beeFrame)
> beeMatrix # display matrix
      BuffTail Gardenbee RedTail Carderbee Honeybee
[1,]      10         8      18         8        12
[2,]         1         3         9        27        13
[3,]      37         9      12         6        16
[4,]         5         6         4        32         9
[5,]      12         4      NA        23        10
> plantnames <- list("Thistle","Viper","Golden Rain","Yellowfala","Blackburry")
> plantmatrix <- as.matrix(plantnames)
> # set row names
> rownames(beeMatrix) <- plantmatrix
> beeMatrix # display result
      BuffTail Gardenbee RedTail Carderbee Honeybee
Thistle      10         8      18         8        12
Viper         1         3         9        27        13
Golden Rain  37         9      12         6        16
Yellowfala   5         6         4        32         9
Blackburry   12         4      NA        23        10
> |
```

Q. b)



The screenshot shows the RStudio interface with the console pane active. The console displays the following R code and its output:

```
> n1 <- c(1,2,3,4,5) # vector of numbers
> s1 <- c('A','B','C','D','E') # vector of strings
> r1 <- c(1.1,1.2,1.3,1.4,1.5)
> list1 <- list(num = n1, string = s1, realnum = r1) # create a list
> list1 # print the list
```

The output shows the structure of the list:

```
$num
[1] 1 2 3 4 5

$string
[1] "A" "B" "C" "D" "E"

$realnum
[1] 1.1 1.2 1.3 1.4 1.5

>
```

The RStudio window title is "RStudio" and the menu bar includes File, Edit, Code, View, Plots, Session, Build, Debug, Profile, and Tools. The left sidebar shows icons for Files, R, and other applications.