## Module-8.R

## r1916748

## 2023-03-05

```
col_names= c('Name','Age','Sex','Grade')
Student_assignment6 <- read.table('Assignment 6 Dataset.txt', sep=',', header=TRUE, col.names = col_nam
Student_assignment6
##
           Name Age
                       Sex Grade
## 1
         Booker 18
                      Male
                              83
## 2
         Lauri 21 Female
                              90
## 3
        Leonie 21 Female
                              91
## 4
       Sherlyn 22 Female
                              85
## 5
       Mikaela 20 Female
                              69
## 6
       Raphael 23
                      Male
                              91
## 7
           Aiko 24 Female
                              97
## 8
       Tiffaney 21 Female
                              78
         Corina 23 Female
## 9
                              81
## 10 Petronila 23 Female
                              98
## 11
        Alecia 20 Female
                              87
## 12
       Shemika 23 Female
                              97
## 13
        Fallon 22 Female
## 14
       Deloris 21 Female
                              67
## 15
        Randee 23 Female
                              91
          Eboni 20 Female
## 16
                              84
       Delfina 19 Female
## 17
                              93
## 18 Ernestina 19 Female
                              93
           Milo 19
## 19
                      Male
                              67
#Step 2
install.packages("plyr")
## Installing package into '/cloud/lib/x86_64-pc-linux-gnu-library/4.2'
## (as 'lib' is unspecified)
library(plyr)
Student <- ddply(Student_assignment6, "Sex", transform, Grade.Average=mean(Grade))
Student
##
           Name Age
                       Sex Grade Grade. Average
## 1
          Lauri 21 Female
                                      86.93750
                              90
## 2
         Leonie 21 Female
                              91
                                      86.93750
## 3
       Sherlyn 22 Female
                              85
                                      86.93750
## 4
        Mikaela 20 Female
                              69
                                      86.93750
## 5
           Aiko 24 Female
                              97
                                      86.93750
                              78
## 6
       Tiffaney 21 Female
                                      86.93750
## 7
         Corina 23 Female
                                      86.93750
                              81
```

```
## 8 Petronila 23 Female
                             98
                                     86.93750
## 9
        Alecia 20 Female
                             87
                                     86.93750
## 10
       Shemika 23 Female
                             97
                                     86.93750
       Fallon 22 Female
## 11
                             90
                                     86.93750
       Deloris 21 Female
## 12
                             67
                                     86.93750
## 13
       Randee 23 Female
                             91
                                     86.93750
        Eboni 20 Female
## 14
                             84
                                     86.93750
       Delfina 19 Female
                                     86.93750
## 15
                             93
## 16 Ernestina 19 Female
                             93
                                     86.93750
## 17
        Booker 18
                     Male
                             83
                                     80.33333
## 18
       Raphael 23
                     Male
                             91
                                     80.33333
## 19
          Milo 19
                     Male
                             67
                                     80.33333
#Step 3
write.table(Student, "Sorted_Average", sep=",")
#Step 4
Student_filter <- subset(Student_assignment6,grepl("[iI]",Student_assignment6$Name))</pre>
write.table(Student_filter, "DataSubset", sep=",")
```