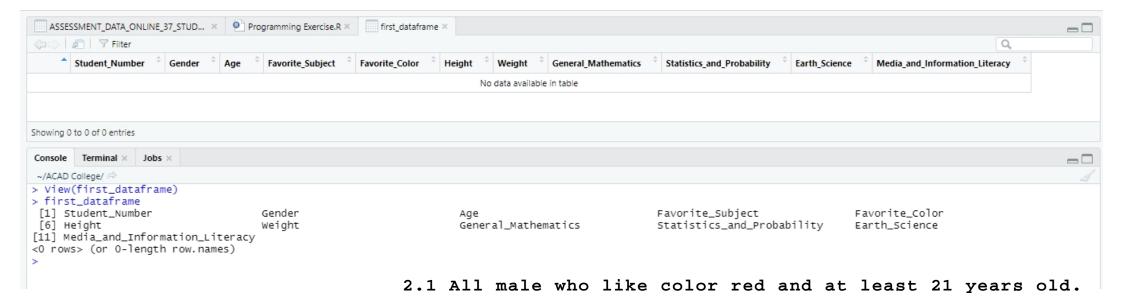
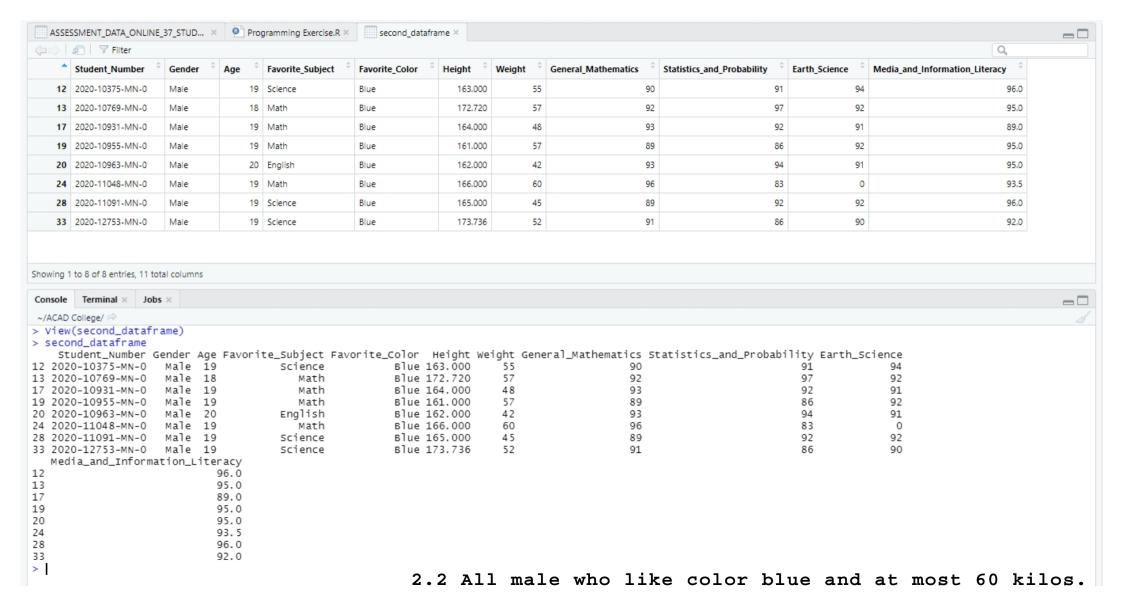
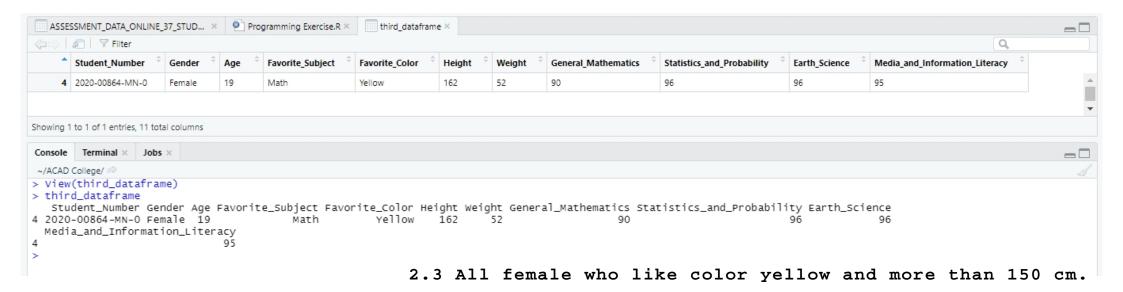


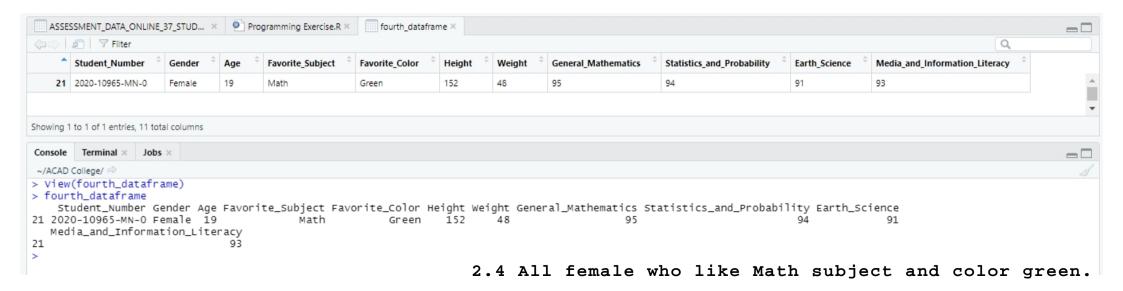
1.Data Frame with all the variables in the excel file. (As table)

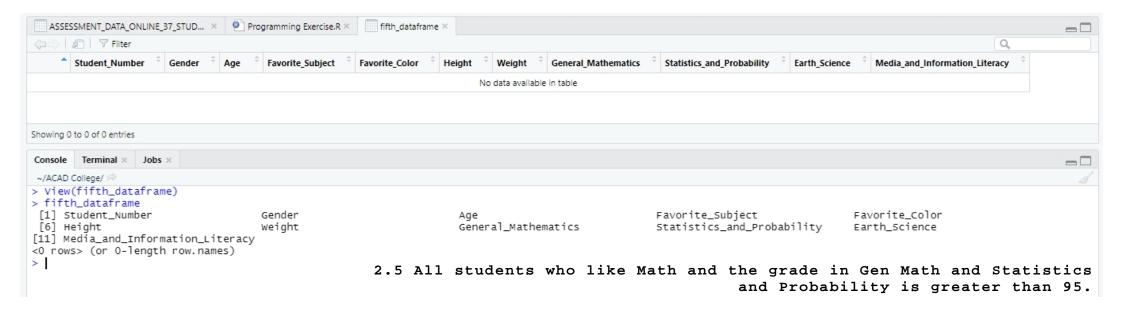
```
Console Terminal × Jobs
~/ACAD College/ A
> View(main_dataframe)
> main dataframe
    Student_Number Gender Age Favorite_Subject Favorite_Color Height Weight General_Mathematics Statistics_and_Probability Earth_Science
  2019-10227-MN-0
                   Male 20
                                                         Red 169,000
                                                                                                                                    94
                                      Science
                                                                      60.0
                                                                                            84
   2019-11438-MN-0
                    Male 20
                                      Science
                                                         Red 174.000
                                                                       90.0
                                                                                            91
   2020-00850-MN-0
                    Male 19
                                      English
                                                         Red 175.260
                                                                       47.0
                                                                                             0
                                                                                                                       0
                                                                                                                                     0
3
   2020-00864-MN-0 Female
                          19
                                         Math
                                                      Yellow 162.000
                                                                       52.0
                                                                                            90
                                                                                                                       96
                                                                                                                                     96
   2020-08862-MN-0 Female 19
                                      Science
                                                        Red 171.000
                                                                      65.0
                                                                                            90
                                                                                                                       89
                                                                                                                                     89
5
   2020-08863-MN-0
                    Male 19
                                      Science
                                                        Blue 176.700
                                                                      94.0
                                                                                            87
                                                                                                                       95
                                                                                                                                     92
   2020-08864-MN-0 Female 19
                                      English
                                                        Blue 163,000
                                                                      60.0
                                                                                            94
                                                                                                                       94
                                                                                                                                     90
0
   2020-08865-MN-0
                    Male
                          18
                                      English
                                                        Blue 158.000
                                                                       65.0
                                                                                            84
                                                                                                                       94
                                                                                                                                    91
9
  2020-08867-MN-0
                    Male 18
                                        Math
                                                        Blue 170,000
                                                                      62.0
                                                                                            92
                                                                                                                       92
                                                                                                                                     91
10 2020-08868-MN-0
                    Male 19
                                      English
                                                        Red 170.000
                                                                      54.0
                                                                                            94
                                                                                                                       92
                                                                                                                                    93
11 2020-08869-MN-0
                    Male 19
                                                       Green 175,000
                                                                       55.0
                                                                                            91
                                                                                                                       99
                                                                                                                                     91
                                      Science
12 2020-10375-MN-0
                    Male
                          19
                                      Science
                                                        Blue 163,000
                                                                       55.0
                                                                                            90
                                                                                                                       91
                                                                                                                                    94
13 2020-10769-MN-0
                    Male 18
                                        Math
                                                        Blue 172,720
                                                                      57.0
                                                                                            92
                                                                                                                       97
                                                                                                                                     92
14 2020-10860-MN-0 Female 18
                                         Math
                                                        Blue 150,000
                                                                      43.0
                                                                                            95
                                                                                                                       89
                                                                                                                                     92
15 2020-10861-MN-0
                    Male
                          19
                                      Science
                                                        Blue 165.000
                                                                       65.0
                                                                                            90
                                                                                                                       88
                                                                                                                                     87
                                                        Blue 167.670
                                                                                            93
16 2020-10902-MN-0
                    Male 19
                                         Math
                                                                      79.0
                                                                                                                       94
                                                                                                                                    90
17 2020-10931-MN-0
                    Male 19
                                         Math
                                                        Blue 164.000
                                                                      48.0
                                                                                                                       92
                                         Math
18 2020-10951-MN-0
                    Male 18
                                                        Blue 173,000
                                                                      62.0
                                                                                            92
                                                                                                                       95
                                                                                                                                    91
19 2020-10955-MN-0
                    Male
                          19
                                         Math
                                                        Blue 161.000
                                                                       57.0
                                                                                            89
                                                                                                                       86
                                                                                                                                     92
                                      English
20 2020-10963-MN-0
                    Male 20
                                                        Blue 162.000
                                                                      42.0
                                                                                            93
                                                                                                                       94
                                                                                                                                    91
21 2020-10965-MN-0 Female 19
                                         Math
                                                       Green 152.000
                                                                                            95
                                                                                                                       94
                                                                      48.0
                                                                                                                                     91
22 2020-10978-MN-0
                    Male 18
                                         Math
                                                         Red 167,640
                                                                      46.0
                                                                                            91
                                                                                                                       95
                                                                                                                                    94
23 2020-11006-MN-0
                    Male 19
                                      Science
                                                         Red 170,000
                                                                       57.0
                                                                                            90
                                                                                                                       95
                                                                                                                                     92
24 2020-11048-MN-0
                                                        Blue 166.000
                    Male 19
                                         Math
                                                                      60.0
                                                                                            96
                                                                                                                       83
                                                                                                                                     0
25 2020-11051-MN-0 Female 19
                                      Science
                                                        Blue 156.000
                                                                       48.0
                                                                                            89
                                                                                                                       89
                                                                                                                                     87
26 2020-11067-MN-0
                    Male 18
                                                       Green 167,000
                                                                                            95
                                                                                                                       92
                                                                                                                                     95
                                                                       70.0
                                      Science
27 2020-11072-MN-0
                    Male
                          18
                                      Science
                                                         Red 168.000
                                                                       73.5
                                                                                            90
                                                                                                                       92
                                                                                                                                     90
28 2020-11091-MN-0
                    Male 19
                                                        Blue 165.000
                                                                       45.0
                                                                                            89
                                                                                                                       92
                                                                                                                                     92
                                      Science
29 2020-11110-MN-0
                    Male 19
                                      Science
                                                        Blue 165.100
                                                                      65.0
                                                                                            95
                                                                                                                       94
                                                                                                                                     92
30 2020-12446-MN-0
                    Male 19
                                      Science
                                                       Green 170.000
                                                                       61.0
                                                                                            89
                                                                                                                       93
                                                                                                                                     90
31 2020-12540-MN-0 Female
                          19
                                      Science
                                                        Blue 157,480
                                                                       60.0
                                                                                             0
                                                                                                                       0
                                                                                                                                     0
32 2020-12541-MN-0
                   Male 18
                                      Science
                                                        Blue 165.000
                                                                                                                       92
                                                                                                                                     88
                                                                      63.0
33 2020-12753-MN-0
                    Male 19
                                      Science
                                                        Blue 173.736
                                                                      52.0
                                                                                            91
                                                                                                                       86
                                                                                                                                     90
  2020-12765-MN-0 Female
                          18
                                      Science
                                                        Blue 157.000
                                                                       45.0
                                                                                            86
                                                                                                                       90
                                                                                                                                     93
                                                        Red 160.500
                                                                                            96
35 2020-12792-MN-0 Male
                          1.8
                                        Math
                                                                       63.0
                                                                                                                       88
                                                                                                                                     95
36 2020-12794-MN-0 Female 19
                                      English
                                                        Red 160.000
                                                                      58.0
                                                                                                                                     92
37 2020-13575-MN-0 Male 19
                                                        Blue 177.000
                                                                                            29
                                                                                                                       90
                                                                                                                                     87
                                      Science
                                                                      65.0
   Media_and_Information_Literacy
2
3
                            96.0
4
                            95.0
                            92.0
5
                            97.0
7
                            94.0
8
                            90.0
9
                            98.0
10
                            91.0
11
                            90.0
12
                            96.0
                            95.0
13
14
                            91.0
15
                            89.0
16
                            92.0
17
                            89.0
18
                            92.0
19
20
                            95.0
22
                            94.0
23
                            96.0
24
                            93.5
25
                            94.0
                            94.0
26
27
                            90.0
28
                            96.0
29
                            98.0
30
                            93.0
31
                             0.0
32
                            91.0
33
                            92.0
                                              1.Data Frame with all the variables in
34
                            93.0
35
                            94.0
                                                                        the excel file. (In console)
36
                            95.0
37
                            92.0
```

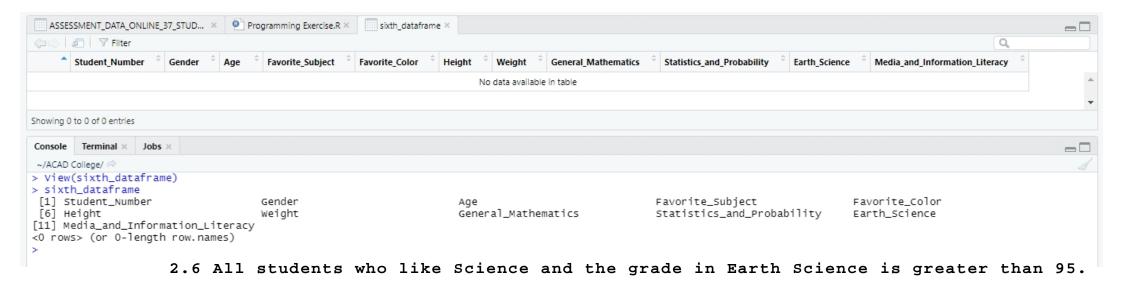


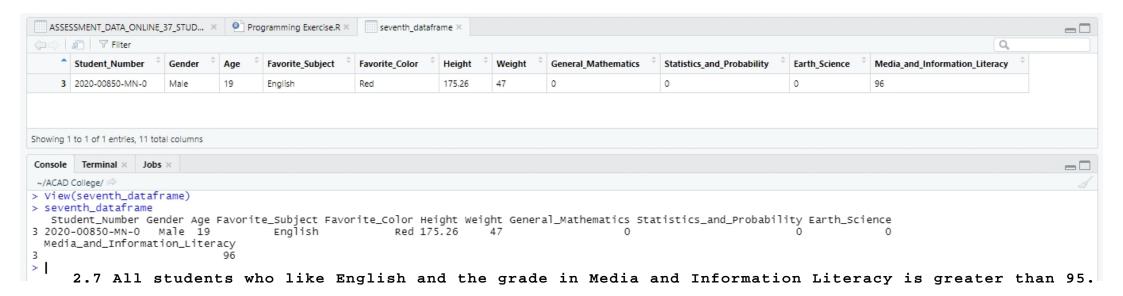


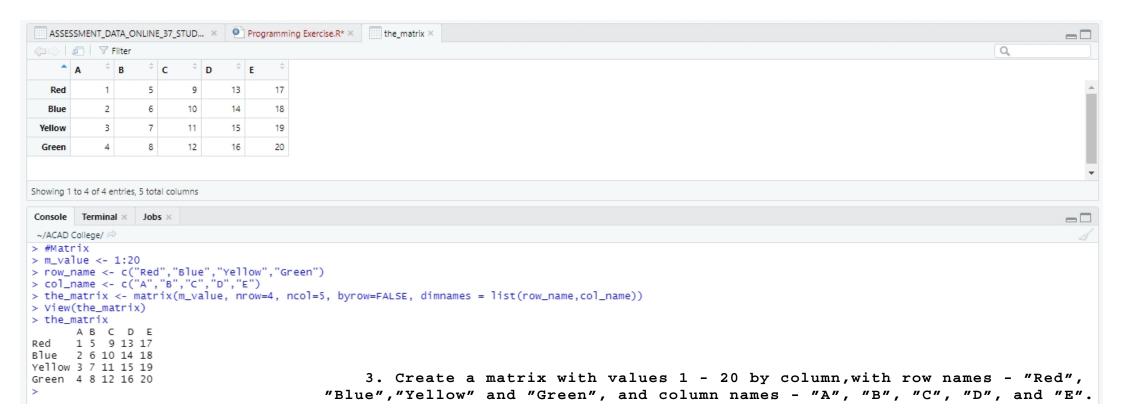












```
Console Terminal × Jobs ×
~/ACAD College/ 🔎
> the_matrix
      ABCDE
Red 1 5 9 13 17
Blue 2 6 10 14 18
Yellow 3 7 11 15 19
Green 4 8 12 16 20
> #Extracting column A, C, D
                                                4. Extract the columns for "A", "C", and "D".
> the_matrix[,c(1,3,4)]
      A C D
Red 1 9 13
Blue 2 10 14
Yellow 3 11 15
Green 4 12 16
> #Extracting row Blue and yellow
                                                5. Extract the rows for "Blue" and "Yellow".
> the_matrix[c(2,3),]
      ABCDE
Blue 2 6 10 14 18
Yellow 3 7 11 15 19
```

```
Console Terminal × Jobs ×
~/ACAD College/ @
> #list
> listahan <- list(a=seg(1.20, length.out=40).b = factor(c("Rex", "BTS", "Cavetown", "The 1975", "Sud")))</pre>
> listahan
$a
     1.000000 1.487179 1.974359 2.461538 2.948718 3.435897 3.923077 4.410256 4.897436 5.384615 5.871795 6.358974 6.846154
     8.307692 8.794872 9.282051 9.769231 10.256410 10.743590 11.230769 11.717949 12.205128 12.692308 13.179487 13.666667 14.153846 14.641026 15.128205
[31] 15.615385 16.102564 16.589744 17.076923 17.564103 18.051282 18.538462 19.025641 19.512821 20.000000
[1] Rex
                   Cavetown The 1975 Sud
           BTS
Levels: BTS Cavetown Rex Sud The 1975
                                                                            6. Create a list with a sequence of numbers with 40
                                                                      elements between 1-20 inclusive, and a factor of your 5
```