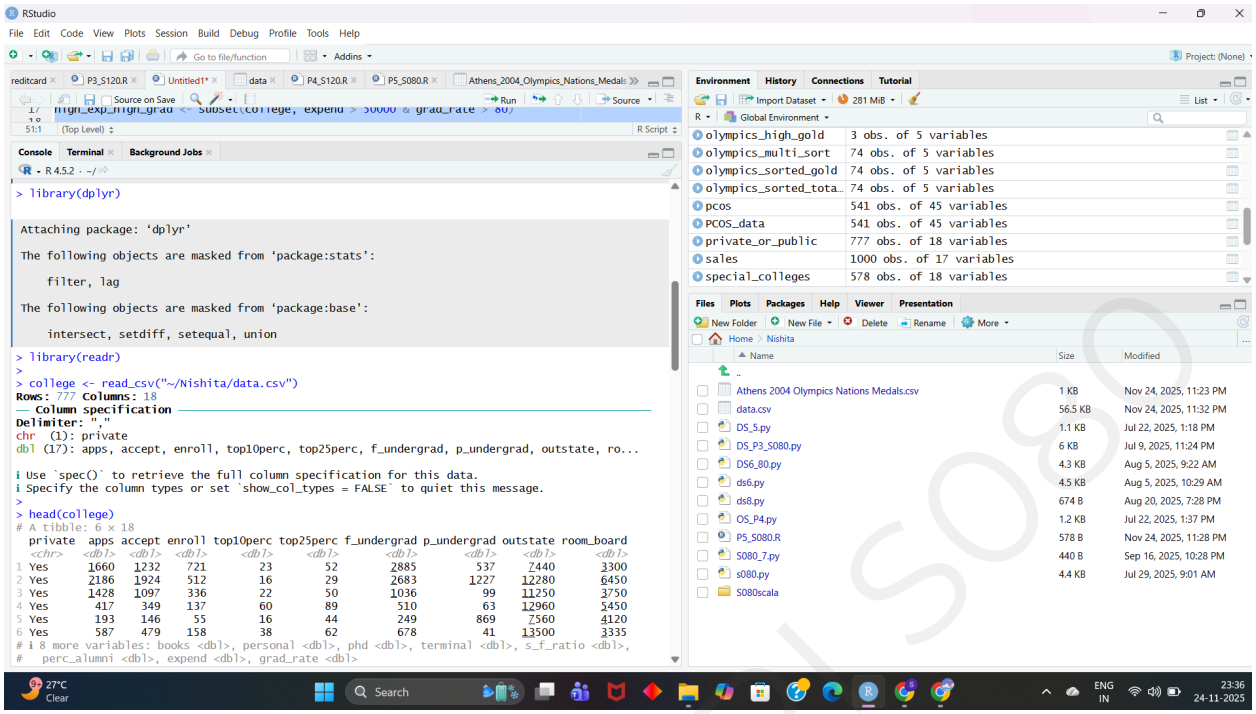
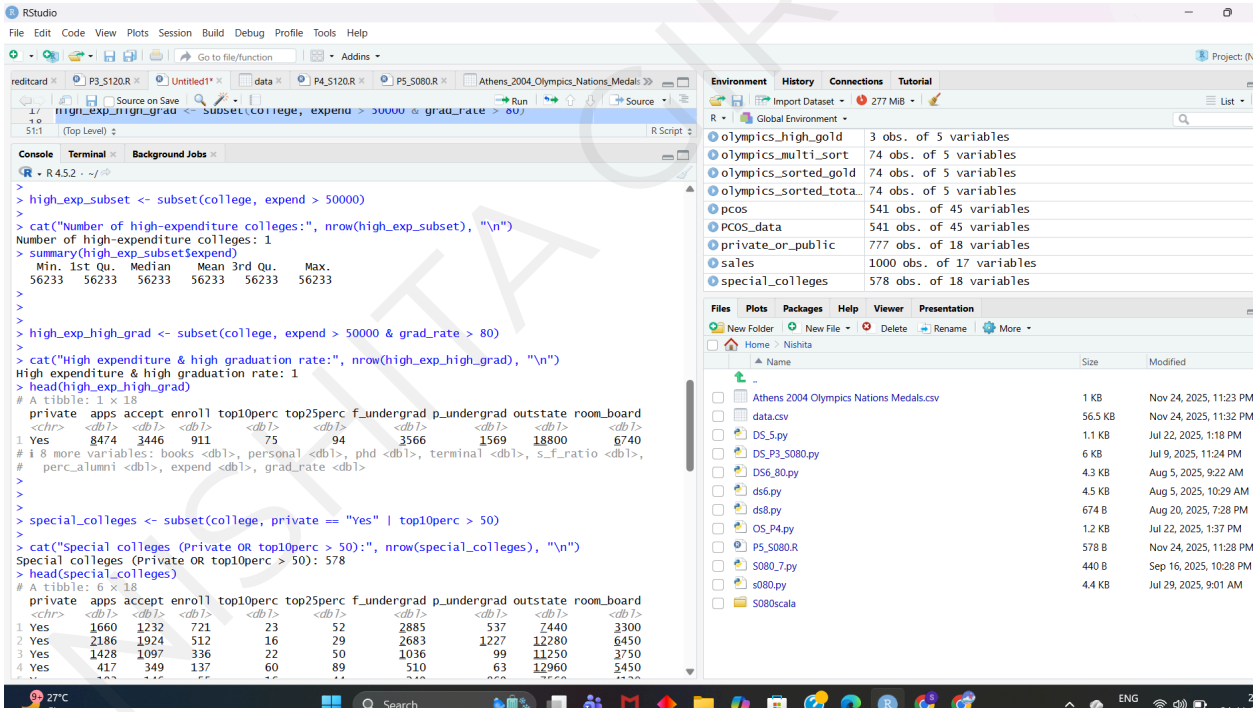
SHETH LUJ AND SIR MV COLLEGE





NISHITA GIRI S080

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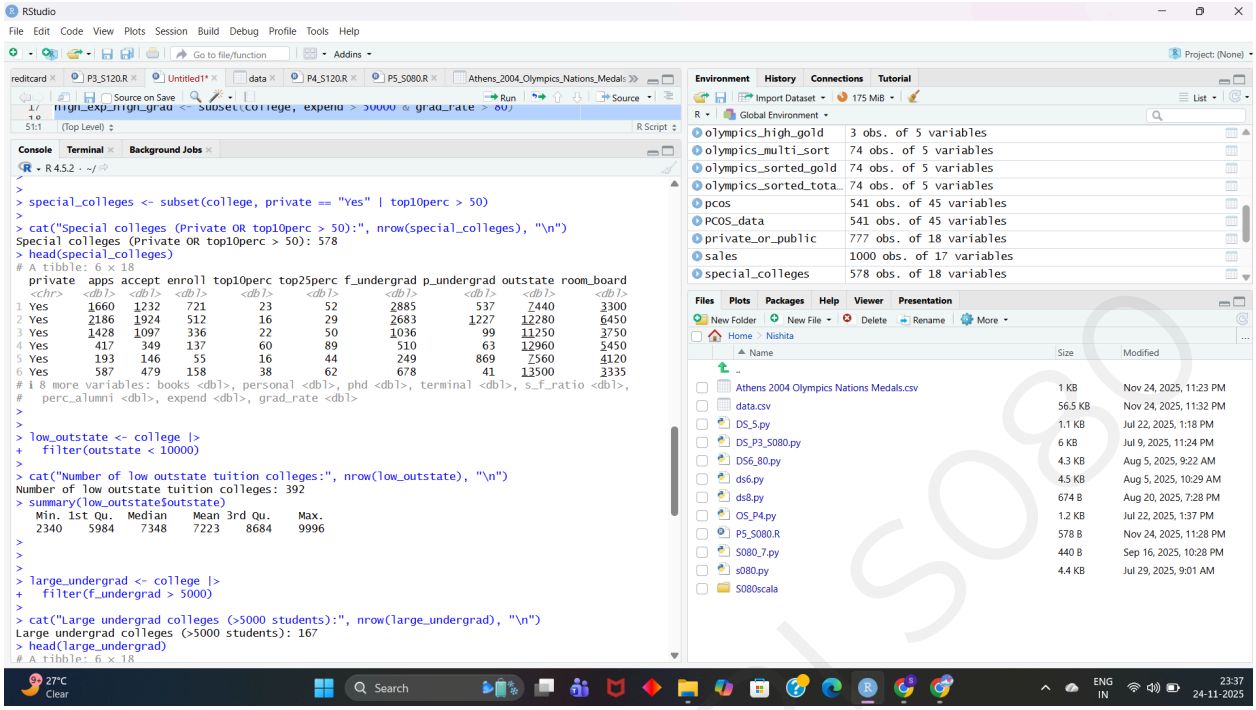
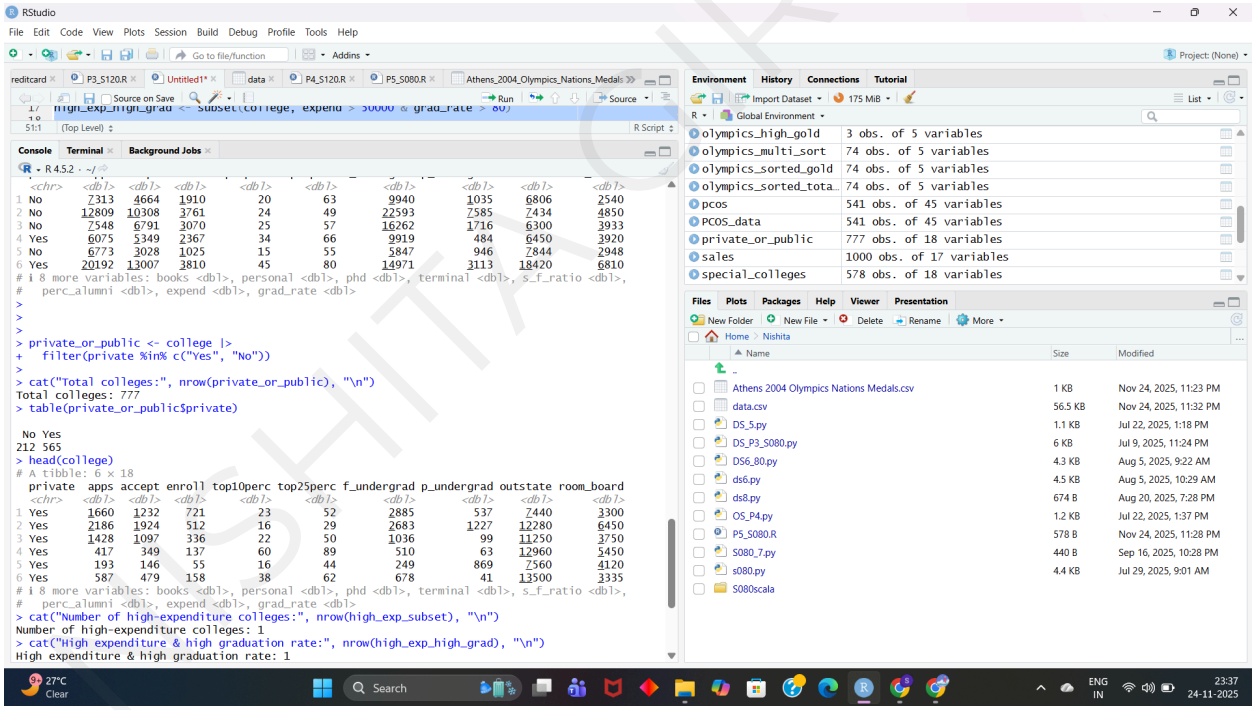


```
> special_colleges <- subset(college, private == "Yes" | top10perc > 50)
>
> cat("Special colleges (Private OR top10perc > 50):", nrow(special_colleges), "\n")
Special colleges (Private OR top10perc > 50): 578
> head(special_colleges)
# A tibble: 6 × 18
  private  apps accept enroll top10perc top25perc f_undergrad p_undergrad outstate room_board
  <chr>   <dbl>  <dbl>  <dbl>     <dbl>     <dbl>       <dbl>       <dbl>    <dbl>      <dbl>
1 Yes      1660   1232    721        23        52        2885         537     7440       3300
2 Yes      2186   1924    512        16        29        2683        1227    12280       6450
3 Yes      1428   1097    336        22        50        1036          99    11250       3750
4 Yes       417    349    137        60        89         510          63    12960       5450
5 Yes       193    146     55        16        44         249         869     7560       4120
6 Yes       587    479    158        38        62         678          41    13500       3335
# i 8 more variables: books <dbl>, personal <dbl>, phd <dbl>, terminal <dbl>, s_f_ratio <dbl>,
#   perc_alumni <dbl>, expend <dbl>, grad_rate <dbl>
>
>
> low_outstate <- college |>
+   filter(outstate < 10000)
>
> cat("Number of low outstate tuition colleges:", nrow(low_outstate), "\n")
Number of low outstate tuition colleges: 392
> summary(low_outstate$outstate)
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
   2340    5984    7348    7223    8684    9996
>
>
>
> large_undergrad <- college |>
+   filter(f_undergrad > 5000)
>
> cat("Large undergrad colleges (>5000 students):", nrow(large_undergrad), "\n")
Large undergrad colleges (>5000 students): 167
> head(large_undergrad)
# A tibble: 6 × 18
```



```
  <chr>   <dbl>  <dbl>  <dbl>     <dbl>     <dbl>       <dbl>       <dbl>    <dbl>      <dbl>
1 No       7313   4664   1910        20        63        9940        1035     6806       2540
2 No      12809  10308   3761        24        49       22593        7585     7434       4850
3 No       7548   6791   3070        25        57       16262        1716     6300       3933
4 Yes      6075   5349   2367        34        66        9919         484     6450       3920
5 No       6773   3028   1025        15        55        5847         946     7844       2948
6 Yes     20192  13007   3810        45        80       14971        3113    18420       6810
# i 8 more variables: books <dbl>, personal <dbl>, phd <dbl>, terminal <dbl>, s_f_ratio <dbl>,
#   perc_alumni <dbl>, expend <dbl>, grad_rate <dbl>
>
>
>
> private_or_public <- college |>
+   filter(private %in% c("Yes", "No"))
>
> cat("Total colleges:", nrow(private_or_public), "\n")
Total colleges: 777
> table(private_or_public$private)

 No Yes
212 565
> head(college)
# A tibble: 6 × 18
  private  apps accept enroll top10perc top25perc f_undergrad p_undergrad outstate room_board
  <chr>   <dbl>  <dbl>  <dbl>     <dbl>     <dbl>       <dbl>       <dbl>    <dbl>      <dbl>
1 Yes      1660   1232    721        23        52        2885         537     7440       3300
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#   perc_alumni <dbl>, expend <dbl>, grad_rate <dbl>
> cat("Number of high-expenditure colleges:", nrow(high_exp_subset), "\n")
Number of high-expenditure colleges: 1
> cat("High expenditure & high graduation rate:", nrow(high_exp_high_grad), "\n")
High expenditure & high graduation rate: 1
```


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