

# MVLU COLLEGE

AIM: Sorting data using arrange() in R.

INPUT:

The screenshot shows the RStudio interface with the following code in the Source editor:

```
1 library(dplyr)
2 library(readr)
3
4 my_data <- read_csv("C:/Users/mvluc/OneDrive/Desktop/ankita tiwari/python/Student Mental Health.csv")
5
6 my_data <- my_data[, -1]
7
8 head(my_data)
9
10 students_sorted_age <- my_data %>%
11   arrange(Age)
12 cat("Top 5 youngest students:\n")
13 head(students_sorted_age, 5)
14
15 students_sorted_cgpa_desc <- my_data %>%
16   arrange(desc("what is your CGPA?"))
17 cat("Top 5 students with highest CGPA:\n")
18 head(students_sorted_cgpa_desc, 5)
19
20 students_multi_sort <- my_data %>%
21   arrange("your current year of study", Age)
22 cat("Top 10 students sorted by year and age:\n")
23 head(students_multi_sort, 10)
24
25 high_risk_students <- my_data %>%
26   filter("Do you have Anxiety?" == "Yes", "Do you have Panic attack?" == "Yes") %>%
27   arrange(Age)
28 cat("Top 5 students with Anxiety and Panic attacks, youngest first:\n")
29 print(high_risk_students)
30 select("choose your gender", Age, "your current year of study", "Do you have Anxiety?", "Do you have Panic attack?")
31 head(5)
32
```

The RStudio environment includes tabs for practical.no.R, practical.no.S.R, and Student.Mental.health. The console tab shows the command history and the resulting output. The status bar at the bottom indicates the date and time as 25-11-2025 and 12:30.

OUTPUT:

The screenshot shows the RStudio interface with the following output in the Console tab:

```
R 4.1.2 -->
> library(dplyr)
> library(readr)
>
> my_data <- read_csv("C:/Users/mvluc/OneDrive/Desktop/ankita tiwari/python/Student Mental Health.csv")
Rows: 101 Columns: 11
-- Column specification --
Delimiter: ","
chr (10): Timestamp, choose your gender, what is your course?, your current year of study, what is your CGPA?, Marital status, Do you have depression?, Do you have Anxiety?, Do you ha...
dbl (1): Age

# Use `spec()` to retrieve the full column specification for this data.
# Specify the column types or set `show_col_types = FALSE` to quiet this message.
> my_data <- my_data[, -1]
>
> head(my_data)
# A tibble: 6 x 10
  choose your gender` Age `what is your course?` `your current year of study` `what is your CGPA?` `Marital status` do you have Depressi... `Do you have Anxiety?` `Do you have Panic at...
<chr> <dbl> <chr> <chr> <chr> <chr> <chr> <chr> <chr>
1 Female 18 Engineering year 1 3.00 - 3.49 No Yes No Yes
2 Male 21 Islamic education year 2 3.00 - 3.49 No No Yes Yes
3 Male 19 KEMPS year 1 3.00 - 3.49 No Yes Yes Yes
4 Female 22 Laws year 3 3.00 - 3.49 Yes Yes No No
5 Male 23 Mathematics year 4 3.00 - 3.49 No No No No
6 Male 19 Engineering year 2 3.50 - 4.00 No No No Yes

# i abbreviated names: 1: 'do you have Depression?', 2: 'do you have Panic attack?'
# i 1 more variable: 'Did you seek any specialist for a treatment?' <chr>
>
> students_sorted_age <- my_data %>%
+   arrange(Age)
> cat("Top 5 youngest students:\n")
Top 5 youngest students:
> head(students_sorted_age, 5)
# A tibble: 5 x 10
  choose your gender` Age `what is your course?` `your current year of study` `what is your CGPA?` `Marital status` do you have Depressi... `Do you have Anxiety?` `Do you have Panic at...
<chr> <dbl> <chr> <chr> <chr> <chr> <chr> <chr> <chr>
1 Female 18 Engineering year 1 3.00 - 3.49 No Yes No Yes
2 Female 18 BCS year 1 3.50 - 4.00 No No Yes No
3 Male 18 Irkhs year 1 3.50 - 4.00 No No Yes Yes
4 Female 18 KEMPS year 1 3.00 - 3.49 No Yes No No
5 Male 18 KEMPS year 2 3.50 - 4.00 No No Yes No
```

The RStudio environment includes tabs for Source, Terminal, and Background Jobs. The status bar at the bottom indicates the date and time as 25-11-2025 and 12:33.

ANKITA TIWARI

SYCS

S122

Data Analysis with SAS / SPSS /R PRACTICAL NO.5

# MVLU COLLEGE

RStudio  
File Edit Code View Plots Session Build Debug Profile Tools Help  
Console Terminal Background Jobs  
R 4.1.2 - ~\r  
Source

```

2 Male 21 Islamic education year 2 3.00 - 3.49 No No Yes No
3 Male 19 BIT year 1 3.00 - 3.49 No Yes Yes Yes
4 Female 22 IUS year 3 3.00 - 3.49 Yes Yes No Yes
5 Male 23 Mathematics year 4 3.00 - 3.49 No No No No
6 Male 19 Engineering year 2 3.50 - 4.00 No No No Yes
# i abbreviated names: 1: 'do you have Depression?', 2: 'Do you have Panic attack?' <chr>
# i more variable: 'did you seek any specialist for a treatment?' <chr>
>
> students_sorted_age <- my_data %>
+ arrange(Age)
> cat("Top 5 youngest students:\n")
Top 5 youngest students:
> head(students_sorted_age, 5)
# A tibble: 5 x 10
  choose your gender` Age `what is your course?` `Your current year of Study` `what is your CGPA?` `Marital status` Do you have Depressi-1 `Do you have Anxiety?` Do you have Panic at-2
<chr> <dbl> <chr> <chr> <chr> <chr> <chr> <chr> <chr>
1 Female 18 Engineering year 1 3.00 - 3.49 No Yes No Yes
2 Female 18 BCS year 1 3.50 - 4.00 No Yes Yes No
3 Male 18 Irkhs year 1 3.50 - 4.00 No No Yes Yes
4 Female 18 BCS year 1 3.00 - 3.49 No Yes No No
5 Female 18 KEMMS year 2 3.50 - 4.00 No No Yes No
# i abbreviated names: 1: 'do you have Depression?', 2: 'Do you have Panic attack?' <chr>
# i more variable: 'did you seek any specialist for a treatment?' <chr>
>
> students_sorted_cgpa_desc <- my_data %>
+ arrange(desc(`what is your CGPA?`))
> cat("Top 5 students with highest CGPA:\n")
Top 5 students with Highest CGPA:
> head(students_sorted_cgpa_desc, 5)
# A tibble: 5 x 10
  choose your gender` Age `what is your course?` `Your current year of Study` `what is your CGPA?` `Marital status` Do you have Depressi-1 `Do you have Anxiety?` Do you have Panic at-2
<chr> <dbl> <chr> <chr> <chr> <chr> <chr> <chr> <chr>
1 Male 19 Engineering year 2 3.50 - 4.00 No No No Yes
2 Female 23 Pendidikan Islam year 2 3.50 - 4.00 Yes Yes No Yes
3 Female 18 BCS year 1 3.50 - 4.00 No No Yes No
4 Male 18 Irkhs year 1 3.50 - 4.00 No No Yes Yes
5 Female 20 Psychology year 1 3.50 - 4.00 No No No No
# i abbreviated names: 1: 'do you have Depression?', 2: 'Do you have Panic attack?' <chr>
# i more variable: 'did you seek any specialist for a treatment?' <chr>
>
> students_multi_sort <- my_data %>
+ arrange(`your current year of study`, Age)
> cat("Top 10 students sorted by year and age:\n")
Top 10 students sorted by year and age:
> head(students_multi_sort, 10)
# A tibble: 10 x 10
  choose your gender` Age `what is your course?` `Your current year of Studi-1 `what is your CGPA?` `Marital status` Do you have Depressi-2 `Do you have Anxiety?` Do you have Panic at-3
<chr> <dbl> <chr> <chr> <chr> <chr> <chr> <chr> <chr>
1 Female 20 Psychology year 1 3.50 - 4.00 No No No No
# i abbreviated names: 1: 'your current year of study'; 2: 'do you have depression?'; 3: 'do you have Panic attack?' <chr>
# i more variable: 'did you seek any specialist for a treatment?' <chr>
>
> students_multi_sort <- my_data %>
+ arrange(`your current year of study`, Age)
> cat("Top 10 students sorted by year and age:\n")
Top 10 students sorted by year and age:
> head(students_multi_sort, 10)
# A tibble: 10 x 10
  choose your gender` Age `what is your course?` `Your current year of Studi-1 `what is your CGPA?` `Marital status` Do you have Depressi-2 `Do you have Anxiety?` Do you have Panic at-3
<chr> <dbl> <chr> <chr> <chr> <chr> <chr> <chr> <chr>
1 Female 18 CTS Year 1 3.50 - 4.00 No No No Yes
2 Male 19 BIT Year 1 3.00 - 3.49 No Yes Yes Yes
3 Female 18 KEMMS Year 2 3.50 - 4.00 No No Yes No
4 Female 18 KOE Year 2 3.00 - 3.49 No No No No
5 Male 18 Engineering Year 2 3.00 - 3.49 Yes Yes Yes No
6 Male 18 BCS Year 2 3.50 - 4.00 Yes Yes Yes No
7 Female 18 Human Sciences Year 2 3.00 - 3.49 No No No Yes
8 Male 18 KOT Year 2 3.00 - 3.49 No No Yes No
9 Male 18 Engineering Year 2 3.00 - 3.49 No Yes Yes No
10 Male 19 Engineering Year 2 3.50 - 4.00 No No No Yes
# i abbreviated names: 1: 'your current year of study'; 2: 'do you have depression?'; 3: 'do you have Panic attack?' <chr>
# i more variable: 'did you seek any specialist for a treatment?' <chr>
>
> high_risk_students <- my_data %>
+ filter(`do you have Anxiety?` == "Yes", `do you have Panic attack?` == "Yes") %>
+ arrange(Age)
> cat("Top 5 students with Anxiety and Panic attacks, youngest first:\n")
Top 5 students with Anxiety and Panic attacks, youngest first:
> print(high_risk_students %>
+ select(`choose your gender`, Age, `Your current year of Study`, `do you have Anxiety?`, `do you have Panic attack?`)) %>
+ head(5)
# A tibble: 5 x 5
  choose your gender` Age `Your current year of study` `do you have Anxiety?` `do you have Panic attack?`
<chr> <dbl> <chr> <chr> <chr>
1 Male 18 year 1 Yes Yes
2 Female 18 year 2 Yes Yes
3 Male 18 year 1 Yes Yes
4 Female 18 year 1 Yes Yes
5 Male 19 Year 1 Yes Yes

```

Nifty bank +0.21% 12:33 25-11-2025

RStudio  
File Edit Code View Plots Session Build Debug Profile Tools Help  
Console Terminal Background Jobs  
R 4.1.2 - ~\r  
Source