

PRACTICAL NO 5

AIM:- Sorting data using arrange() in R.

OUTPUT:-

The screenshot shows the RStudio interface. The console displays the following code and output:

```
R - R 4.5.2 - C:/Users/as993/DATA SET/ > library(readr) > Processed_Global_Mobile_Prices <- read_csv("Processed_Global_Mobile_Prices.csv") Rows: 1000 Columns: 16 Column specification: chr (6): Brand, Model, Support5G, OS, Processor, ReleaseMonth dbl (10): PriceUSD, RAM, Storage, CameraMP, Battery, DisplayInch, ChargingWatt, Rating, Year, MobileScore i Use 'spec()' to retrieve the full column specification for this data. i Specify the column types or set 'show_col_types = FALSE' to quiet this message. > View(Processed_Global_Mobile_Prices) > mobile <- read_csv("Processed_Global_Mobile_Prices.csv") > mobile_sorted_price <- mobile |> + arrange(PriceUSD) > head(mobile_sorted_price, 5)
```

The output shows the first 5 rows of the sorted data:

	Brand	Model	PriceUSD	RAM	Storage	CameraMP	Battery	DisplayInch	ChargingWatt	Support5G	OS
1	Realme	GT 7 Pro	133	101	12	1024	50	5000	5.6	18	No Android
2	Oppo	Reno 11	265	102	8	128	48	5500	7.0	33	No Android
3	Xiaomi	MI 14	462	105	12	64	12	5000	6.4	120	Yes Android
4	Oppo	Reno 11	399	107	6	64	64	6000	6.3	65	Yes Android
5	Infinix	Note 40 Pro	876	109	4	1024	108	4500	7.1	100	No Android

The screenshot shows the RStudio interface with the following code and output:

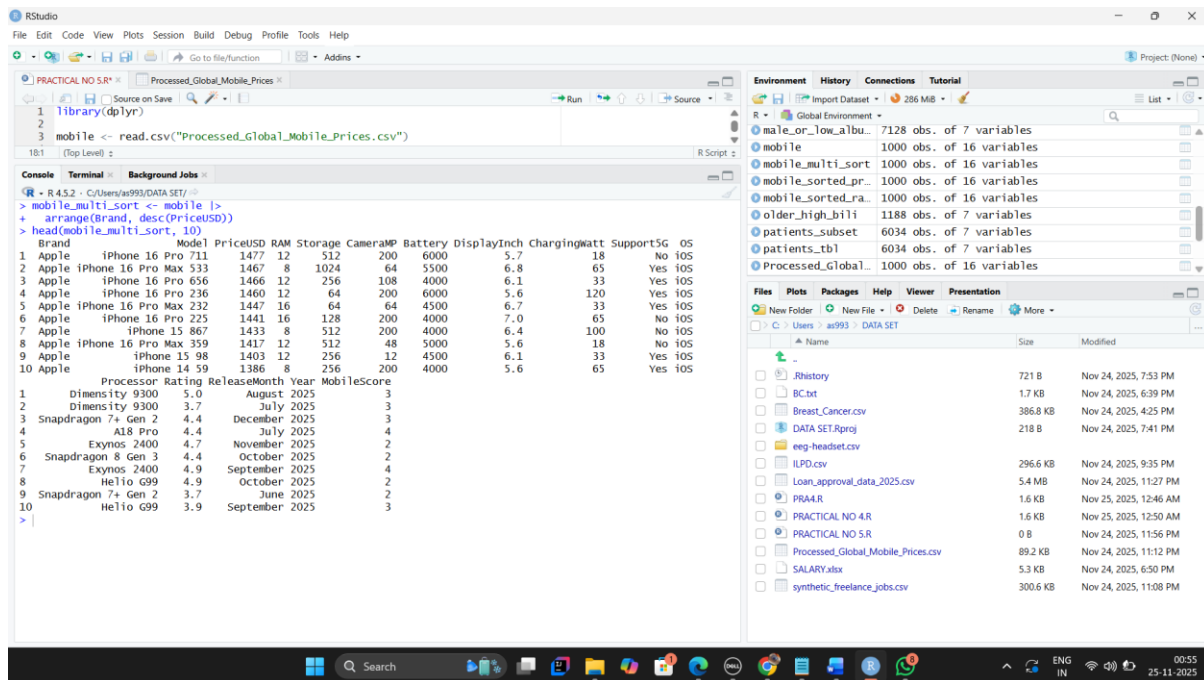
```
R - R 4.5.2 - C:/Users/as993/DATA SET/ > library(dplyr) > mobile <- read_csv("Processed_Global_Mobile_Prices.csv") > mobile_sorted_price <- mobile |> + arrange(desc(RAM)) > head(mobile_sorted_price, 5)
```

The output shows the first 5 rows of the sorted data:

	Brand	Model	PriceUSD	RAM	Storage	CameraMP	Battery	DisplayInch	ChargingWatt	Support5G	OS
1	Oppo	A08 111	855	16	128	108	6000	6.6	33	Yes	Android
2	Xiaomi	Redmi Note 14 Pro	461	258	16	64	64	4000	6.8	44	Yes
3	OnePlus	Nord 4	295	938	16	512	200	5000	6.2	120	No
4	Apple	iPhone 16 Pro Max	232	1447	16	64	64	4500	6.7	33	Yes
5	OnePlus	OnePlus 12 729	127	16	256	200	5500	5.7	44	Yes	Android

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Data Analysis with SAS / SPSS / R

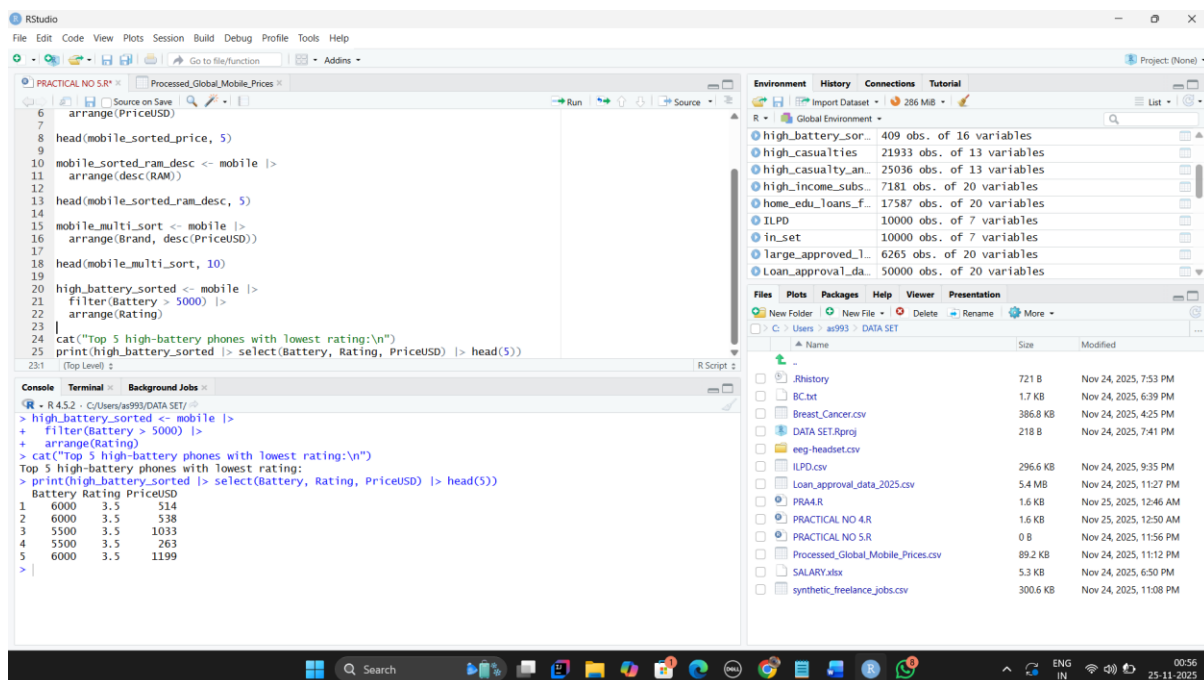


```
1 library(dplyr)
2 mobile <- read.csv("Processed_Global_Mobile_Prices.csv")
3
```

```
R - R 4.5.2 - C:/Users/as993/OneDrive/Desktop/PROJECT/
> mobile_multi_sort <- mobile |>
+ arrange(desc(PriceUSD))
> head(mobile_multi_sort, 10)
```

Brand	Model	PriceUSD	RAM	Storage	CameraMP	Battery	DisplayInch	Chargingwatt	Support5G	OS
1	Apple iPhone 16 Pro	711	1477	12	512	200	6000	5.7	18	No iOS
2	Apple iPhone 16 Pro Max	533	1467	8	1024	64	5500	6.8	65	Yes iOS
3	Apple iPhone 16 Pro	636	1466	12	256	108	4000	6.1	33	Yes iOS
4	Apple iPhone 16 Pro	236	1460	12	64	200	6000	5.6	120	Yes iOS
5	Apple iPhone 16 Pro Max	232	1447	16	64	4500	4500	6.7	33	Yes iOS
6	Apple iPhone 16 Pro	225	1441	16	128	200	4000	7.0	65	No iOS
7	Apple iPhone 15	867	1433	8	512	200	4000	6.4	100	No iOS
8	Apple iPhone 16 Pro Max	359	1417	12	512	48	5000	5.6	18	No iOS
9	Apple iPhone 15	98	1403	12	256	12	4500	6.1	33	Yes iOS
10	Apple iPhone 14	59	1386	8	256	200	4000	5.6	65	Yes iOS

```
1 Processor Rating ReleaseMonth Year MobileScore
2 Dimensity 9300 5.0 August 2025 3
3 Snapdragon 7+ Gen 2 4.4 July 2025 3
4 A18 Pro 4.4 July 2025 4
5 Exynos 2400 4.7 November 2025 2
6 Snapdragon 8 Gen 3 4.4 October 2025 2
7 Exynos 2400 4.9 September 2025 4
8 Helio G99 4.9 October 2025 2
9 Snapdragon 7+ Gen 2 3.7 June 2025 2
10 Helio G99 3.9 September 2025 3
```



```
6 arrange(PriceUSD)
7
8 head(mobile.sorted_price, 5)
9
10 mobile.sorted_ram_desc <- mobile |>
11 arrange(desc(RAM))
12
13 head(mobile.sorted_ram_desc, 5)
14
15 mobile_multi_sort <- mobile |>
16 arrange(desc(PriceUSD))
17
18 head(mobile_multi_sort, 10)
19
20 high_battery_sorted <- mobile |>
21 filter(Battery > 5000) |>
22 arrange(Rating)
23
24 cat("Top 5 high-battery phones with lowest rating:\n")
25 print(high_battery_sorted |> select(Battery, Rating, PriceUSD) |> head(5))
```

```
R - R 4.5.2 - C:/Users/as993/OneDrive/Desktop/PROJECT/
> high_battery_sorted <- mobile |>
+ filter(Battery > 5000) |>
+ arrange(Rating)
> cat("Top 5 high-battery phones with lowest rating:\n")
> print(high_battery_sorted |> select(Battery, Rating, PriceUSD) |> head(5))
```

Battery	Rating	PriceUSD
1	6000	3.5
2	6000	3.5
3	5500	3.5
4	5500	3.5
5	6000	3.5

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