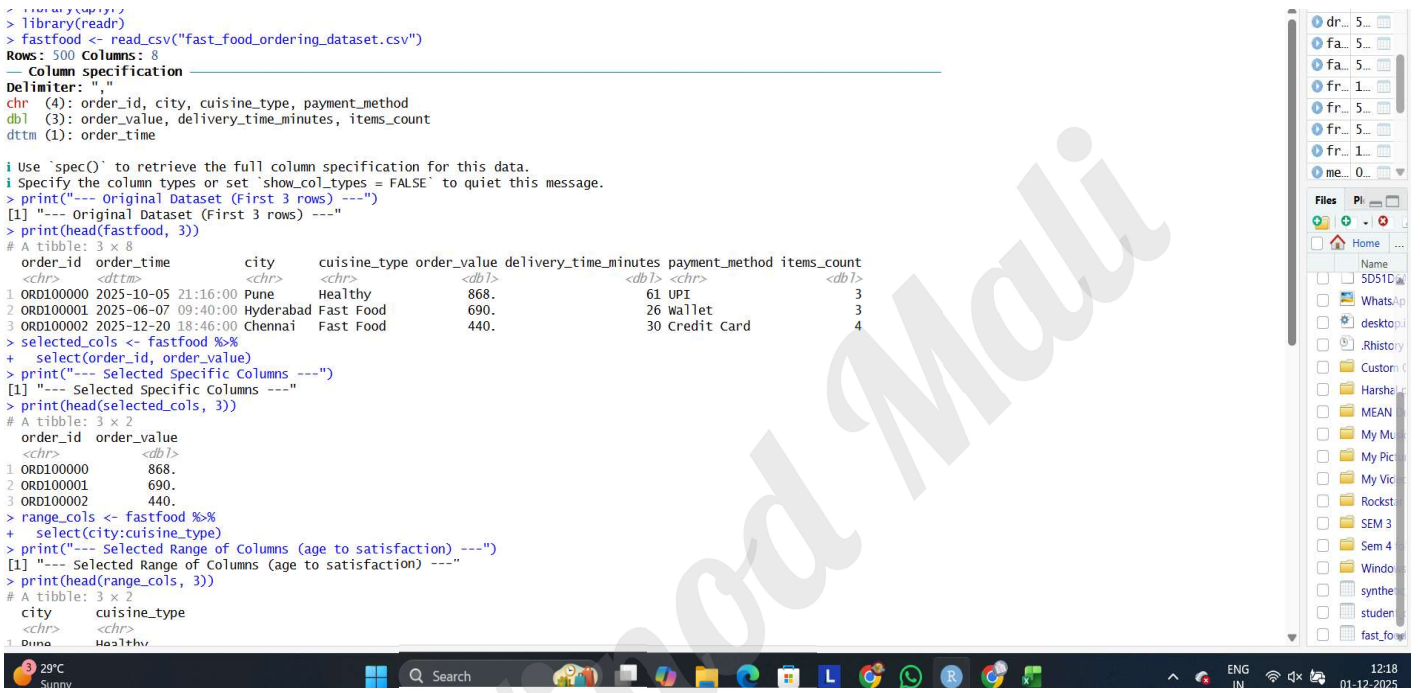
Sheth L.U.J & Sir M.V College Of Science
Subject :- Data Analysis with SAS / SPSS /R
Practical No 7

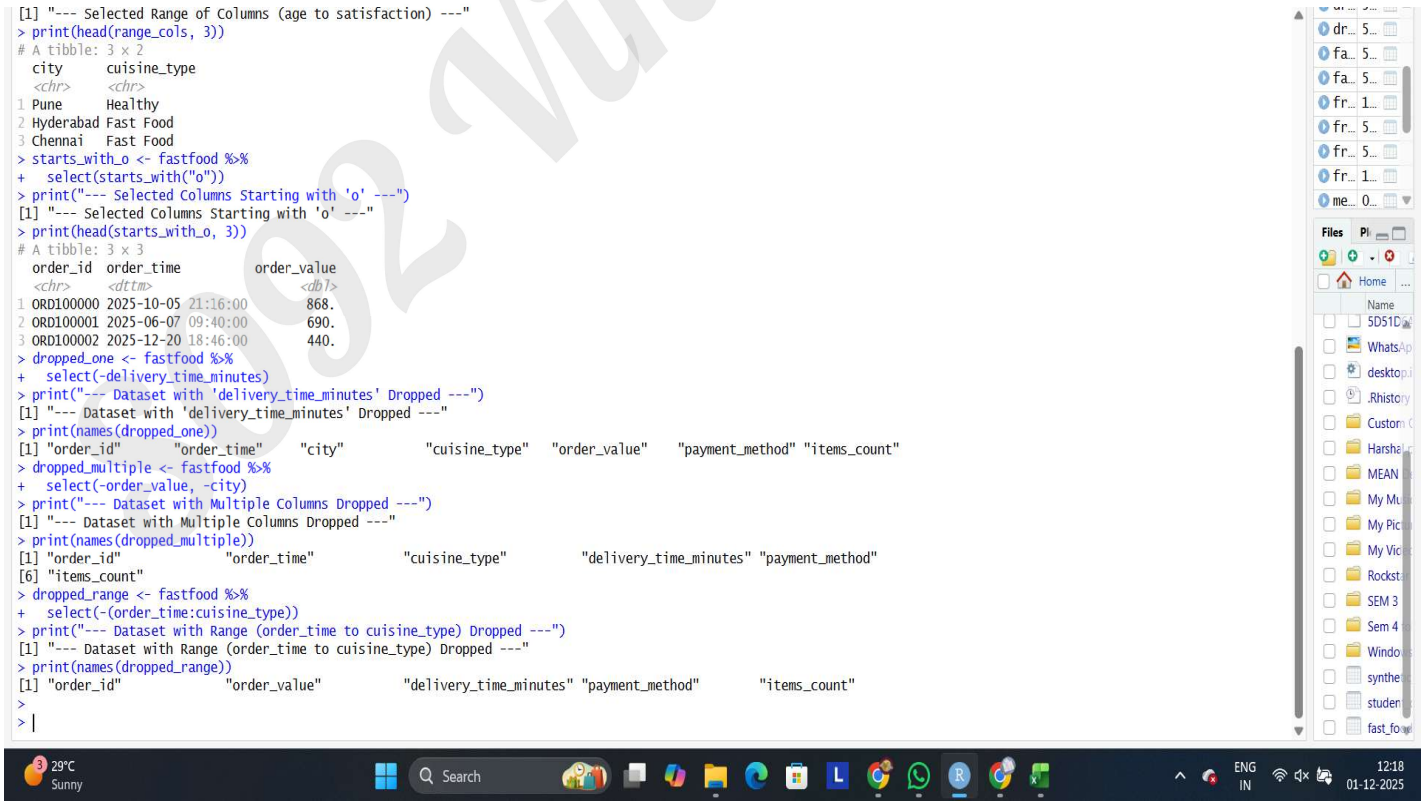
Aim :- Selecting and dropping variables using select() in R. import dataset.

```
> library(readr)
> fastfood <- read_csv("fast_food_ordering_dataset.csv")
Rows: 500 Columns: 8
── Column specification ────────────────────────────────────────────────────────
Delimiter: ","
chr  (4): order_id, city, cuisine_type, payment_method
dbl  (3): order_value, delivery_time_minutes, items_count
dttm (1): order_time

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.
> print("--- Original Dataset (First 3 rows) ---")
[1] "--- Original Dataset (First 3 rows) ---"
> print(head(fastfood, 3))
# A tibble: 3 × 8
  order_id  order_time          city      cuisine_type order_value delivery_time_minutes payment_method items_count
  <chr>     <dttm>              <chr>     <chr>              <dbl>                  <dbl> <chr>                 <dbl>
1 ORD100000 2025-10-05 21:16:00 Pune      Healthy              868.                     61 UPI                       3
2 ORD100001 2025-06-07 09:40:00 Hyderabad Fast Food            690.                     26 Wallet                    3
3 ORD100002 2025-12-20 18:46:00 Chennai   Fast Food            440.                     30 Credit Card               4
> selected_cols <- fastfood %>%
+   select(order_id, order_value)
> print("--- Selected Specific Columns ---")
[1] "--- Selected Specific Columns ---"
> print(head(selected_cols, 3))
# A tibble: 3 × 2
  order_id  order_value
  <chr>           <dbl>
1 ORD100000         868.
2 ORD100001         690.
3 ORD100002         440.
> range_cols <- fastfood %>%
+   select(city:cuisine_type)
> print("--- Selected Range of Columns (age to satisfaction) ---")
[1] "--- Selected Range of Columns (age to satisfaction) ---"
> print(head(range_cols, 3))
# A tibble: 3 × 2
  city      cuisine_type
  <chr>     <chr>
1 Pune      Healthy
```



```
[1] "--- Selected Range of Columns (age to satisfaction) ---"
> print(head(range_cols, 3))
# A tibble: 3 × 2
  city      cuisine_type
  <chr>     <chr>
1 Pune      Healthy
2 Hyderabad Fast Food
3 Chennai   Fast Food
> starts_with_o <- fastfood %>%
+   select(starts_with("o"))
> print("--- Selected Columns Starting with 'o' ---")
[1] "--- Selected Columns Starting with 'o' ---"
> print(head(starts_with_o, 3))
# A tibble: 3 × 3
  order_id  order_time          order_value
  <chr>     <dttm>                    <dbl>
1 ORD100000 2025-10-05 21:16:00         868.
2 ORD100001 2025-06-07 09:40:00         690.
3 ORD100002 2025-12-20 18:46:00         440.
> dropped_one <- fastfood %>%
+   select(-delivery_time_minutes)
> print("--- Dataset with 'delivery_time_minutes' Dropped ---")
[1] "--- Dataset with 'delivery_time_minutes' Dropped ---"
> print(names(dropped_one))
[1] "order_id"       "order_time"     "city"           "cuisine_type"   "order_value"    "payment_method" "items_count"
> dropped_multiple <- fastfood %>%
+   select(-order_value, -city)
> print("--- Dataset with Multiple Columns Dropped ---")
[1] "--- Dataset with Multiple Columns Dropped ---"
> print(names(dropped_multiple))
[1] "order_id"             "order_time"           "cuisine_type"         "delivery_time_minutes" "payment_method"
[6] "items_count"
> dropped_range <- fastfood %>%
+   select(-(order_time:cuisine_type))
> print("--- Dataset with Range (order_time to cuisine_type) Dropped ---")
[1] "--- Dataset with Range (order_time to cuisine_type) Dropped ---"
> print(names(dropped_range))
[1] "order_id"             "order_value"          "delivery_time_minutes" "payment_method"       "items_count"
>
>
```



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