SHETH L.U.J & SIR M.V COLLEGE OF SCIENCE
SUBJECT : Data Analysis with SAS / SPSS /R

AIM : Performing paired t-tests using t.test(paired=TRUE) (R).

OUTPUT

```
> print("--- 6. Paired t-test ---")
[1] "--- 6. Paired t-test ---"
>
> df <- read.csv("Winter_Fashion_Trends_Dataset.csv")
> # 1. Create simulated paired data
> df$Discounted_Price <- df$Price - runif(nrow(df), min = 5, max = 20)
> # 2. Perform paired t-test
> t_test_paired <- t.test(df$Price,
+                         df$Discounted_Price,
+                         paired = TRUE)
> print(t_test_paired)

        Paired t-test

data:  df$Price and df$Discounted_Price
t = 39.503, df = 149, p-value < 2.2e-16
alternative hypothesis: true mean difference is not equal to 0
95 percent confidence interval:
 12.28630 13.58018
sample estimates:
mean difference
       12.93324

> View(df)
> View(t_test_paired)
>
```

	ID	Brand	Category	Color	Material	Style	Gender	Season	Price.USD.	Popularity_Score	Customer_Rating	Trend_S
1	1	Adidas	Gloves	Brown	Polyester	Streetwear	Women	Winter 2025	244.06	6.0	4.9	Trend
2	2	Gucci	Gloves	Red	Leather	Sporty	Men	Winter 2023	366.73	8.8	3.3	Trend
3	3	H&M	Coat	Brown	Fleece	Streetwear	Unisex	Winter 2025	741.55	4.8	3.5	Trend
4	4	North Face	Coat	Blue	Cashmere	Formal	Men	Winter 2024	116.09	7.5	3.1	Outda
5	5	Mango	Thermal	Blue	Cashmere	Formal	Unisex	Winter 2025	193.16	7.8	4.3	Outda
6	6	Uniqlo	Thermal	Black	Fleece	Formal	Unisex	Winter 2025	699.85	1.7	4.2	Outda
7	7	Uniqlo	Coat	Gray	Fleece	Casual	Men	Winter 2025	497.79	9.7	3.0	Trend
8	8	Mango	Sweater	Cream	Cotton	Streetwear	Unisex	Winter 2025	579.37	6.6	3.8	Outda
9	9	Gucci	Gloves	Brown	Cotton	Casual	Unisex	Winter 2024	315.96	6.2	2.8	Outda
10	10	Mango	Scarf	Maroon	Leather	Luxury	Unisex	Winter 2023	468.58	2.5	4.9	Classi
11	11	Gucci	Beanie	Gray	Cotton	Sporty	Unisex	Winter 2023	452.18	3.3	2.6	Outda
12	12	Adidas	Scarf	Green	Polyester	Streetwear	Women	Winter 2024	568.66	2.6	3.1	Emerg
13	13	Zara	Cardigan	Beige	Cashmere	Luxury	Men	Winter 2023	532.17	1.2	2.5	Trend
14	14	Mango	Thermal	Beige	Cashmere	Streetwear	Men	Winter 2025	95.96	2.4	3.3	Classi
15	15	Uniqlo	Gloves	Brown	Cashmere	Formal	Unisex	Winter 2025	735.62	5.8	4.0	Classi
16	16	Uniqlo	Scarf	Brown	Wool	Formal	Women	Winter 2023	52.28	3.9	3.7	Classi
17	17	H&M	Jacket	White	Fleece	Formal	Men	Winter 2023	694.54	6.2	3.1	Emerg
18	18	Adidas	Cardigan	White	Leather	Casual	Men	Winter 2025	779.50	2.5	4.3	Trend

Showing 1 to 19 of 150 entries, 13 total columns

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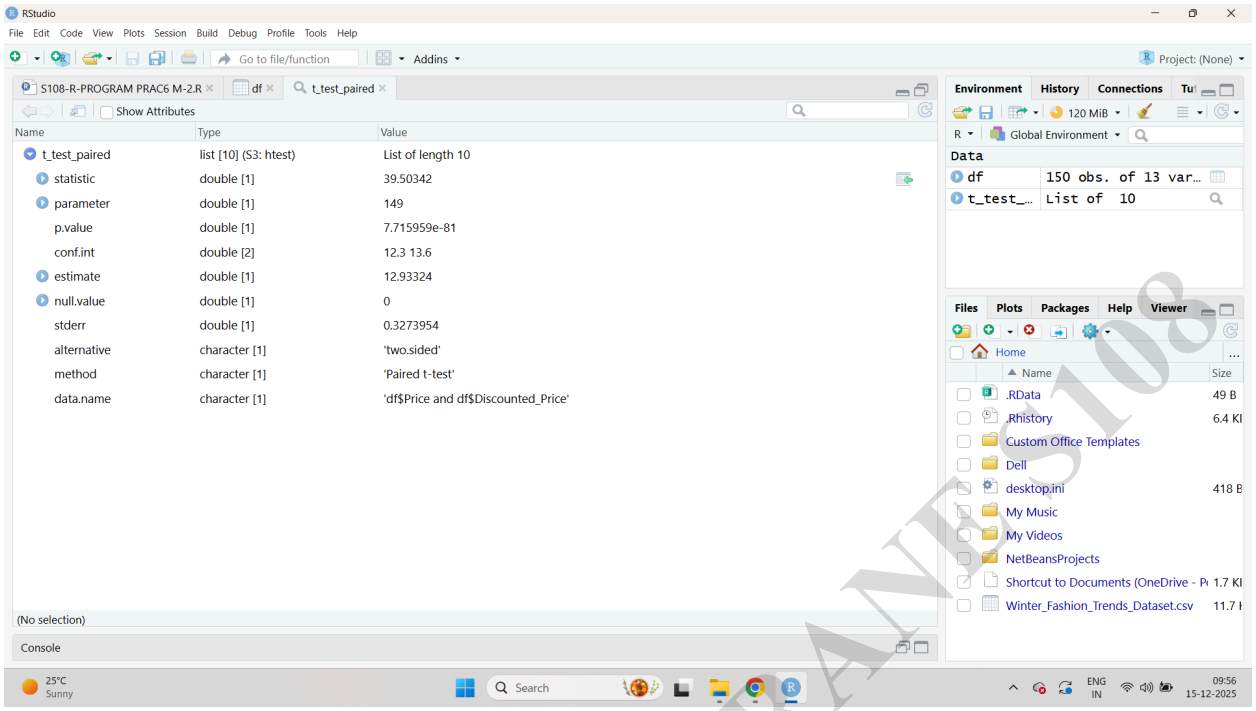

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