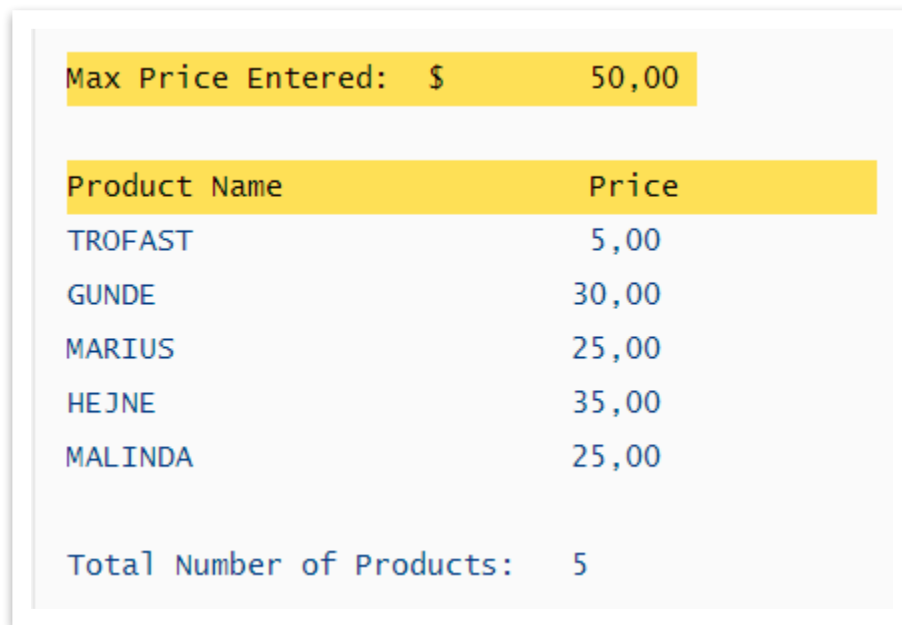# Challenge Lab 5

For this challenge lab, you will be working with data from the ZNAUS24_PRODUCTS table. You can use transaction SE16 to look at the names of the fields, as well as the data in the table. Your input screen will ask the user to enter a maximum price for a product. Your input screen should look like this:

When a max price is entered, the output screen will provide a list of product names and corresponding prices in a nicely formatted table. In addition, your output will provide the total number of products meeting the max price parameter. Your output screen should look like this:

50 was entered for the max price on the input screen:

If the user does not enter a max price on the input screen before executing the program, the following error message (and only the error message) should be displayed:

On the next page you will see the code for the program listed above. Your job is to reassemble the code in a new ABAP program that creates the program described above. You cannot add or alter any of the lines of code, and will need to use them all.

```abap
1    FORMAT COLOR 3.

2     WRITE: 'Total Number of Products:', tot.

3    CONSTANTS header(45) TYPE c VALUE 'Product Name          Price'.

4     ENDLOOP.

5    DATA: itab_products TYPE STANDARD TABLE OF product_data,

6     WRITE header.

7     SKIP.

8    ELSE.

9     FORMAT COLOR OFF.

10   FROM znaus24_products INTO TABLE itab_products

11   IF p_price IS INITIAL.

12   PARAMETERS p_price(6) TYPE p DECIMALS 2.

13    WRITE: / wa_products-c_name, wa_products-c_price.

14      END OF product_data.

15   DATA tot(2) TYPE p.

16   TYPES: BEGIN OF product_data,

17    FORMAT COLOR 6.

18    WRITE '  PLEASE ENTER A MAX PRICE  '.

19      c_price LIKE znaus24_products-price,

20      c_name  LIKE znaus24_products-product_name,

21   SELECT product_name price

22    LOOP AT itab_products INTO wa_products.

23    SKIP.

24     ADD 1 TO tot.

25   ENDIF.

26   WHERE price < p_price.

27    FORMAT COLOR OFF.

28     wa_products   TYPE product_data.

29    WRITE: 'Max Price Entered: ', '$', p_price.
```