

# Challenge Lab 10

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Below you will find a broken program. Please copy the code into a new ABAP program, troubleshoot and fix it.

\*\*\*\* Declare the structure of the internal table and work area

```
TYPES: BEGIN OF product_data,  
       name   LIKE znaus24_products-product_name,  
       category LIKE znaus24_products-product_category,  
       price  LIKE znaus24_products-price,  
       END OF product_data.
```

\*\*\*\* constants

```
CONSTANTS con_total_rec(17) TYPE c VALUE 'Total Records: '  
CONSTANTS con_tax_rate(3) TYPE p DECIMALS 2 VALUE '1.15'.
```

```
CONSTANTS con_header(105) TYPE c VALUE  
'Product Name          Category                      Price    Total'.
```

\*\*\*\* variable for the total number of records.

```
DATA total_rec.
```

\*\*\*\* Variable to hold the price of the product, including taxes.

```
DATA total_price.
```

\*\*\*\* Internal table and work area.

```
DATA: itab_product_data TYPE STANDARD TABLE OF product_data,  
      wa_product_data  TYPE product_data.
```

```
*-----  
* Get the data from the ZNAUS24_PRODUCTS database table  
*-----
```

```
SELECT product_name product_category price  
FROM znaus24_products INTO TABLE itab_product_data.
```

```
*-----  
* Write the report  
*-----
```

\*\*\*\* write the header data

```
FORMAT COLOR 5.  
WRITE 4 con_header.  
FORMAT COLOR OFF.
```

\*\*\*\* write the first line of the table.

```
ULINE.
```

\*\*\*\* Process the internal table.

```
LOOP AT itab_product_data INTO wa_product_data.
```

\*\*\*\* Increment the counter.

```
ADD 1 TO total_rec.
```

\*\*\*\* Determine the total price

```
COMPUTE total_price = wa_product_data-price * con_tax_rate.
```

\*\*\*\* write the body of the report

```
FORMAT COLOR 3.  
WRITE: / '|', wa_product_data-name,'|',wa_product_data-category,'|', wa_product_data-price NO-GAP,'|',  
total_price, '|'.  
ENDLOOP.  
FORMAT COLOR OFF.  
ULINE.
```

\*\*\*\* Write the total number of records.

```
FORMAT COLOR 7.  
WRITE: /, con_total_rec, total_rec.  
FORMAT COLOR OFF.
```