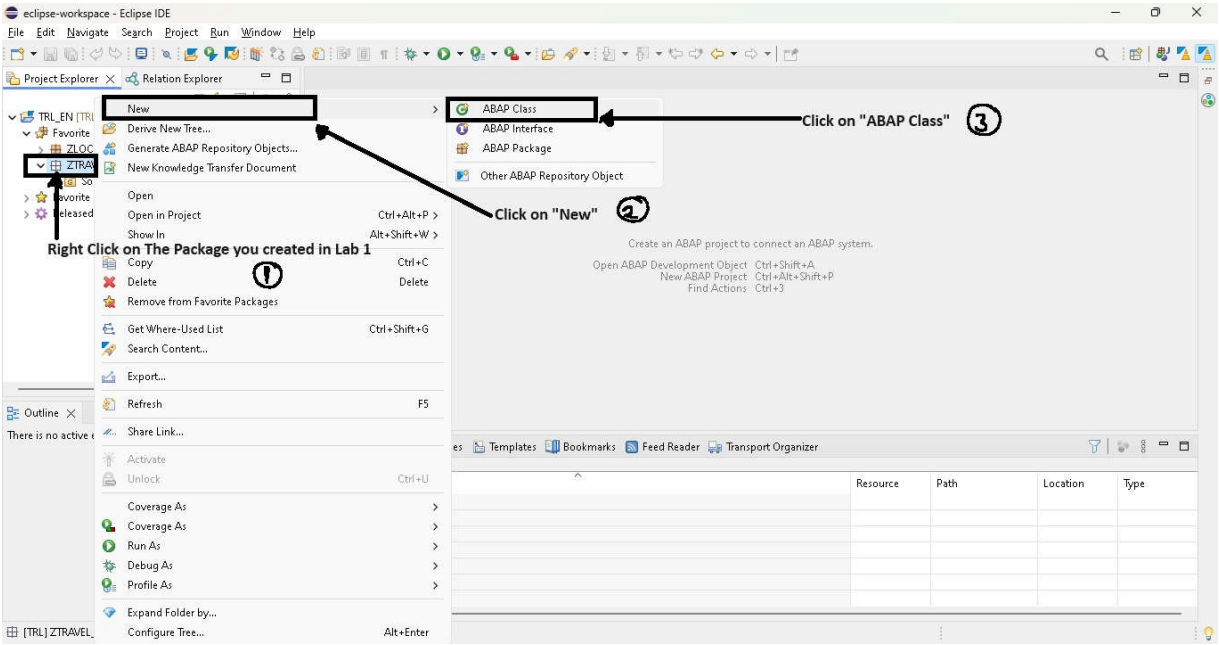
LAB MANUAL 4

Performing various Data type operations

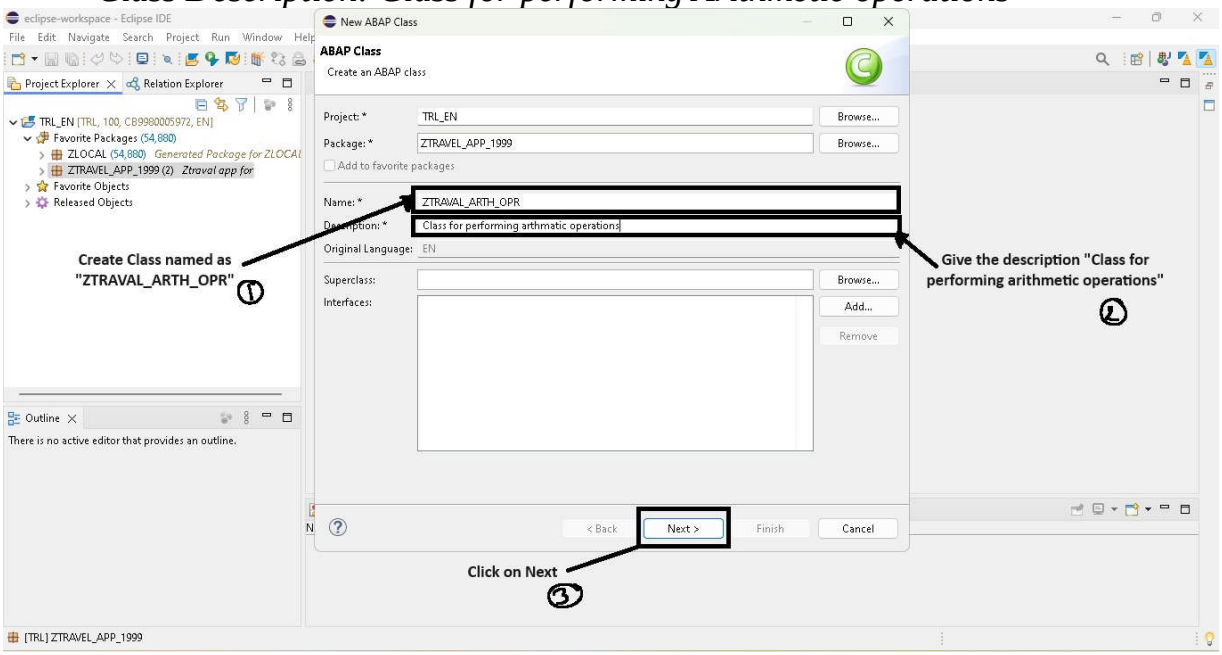
Section A: Arithmetic Operations

Step 1: Create the new class, Right click on the package you created in Lab1 → Click on “New” → Click on “ABAP Class”.

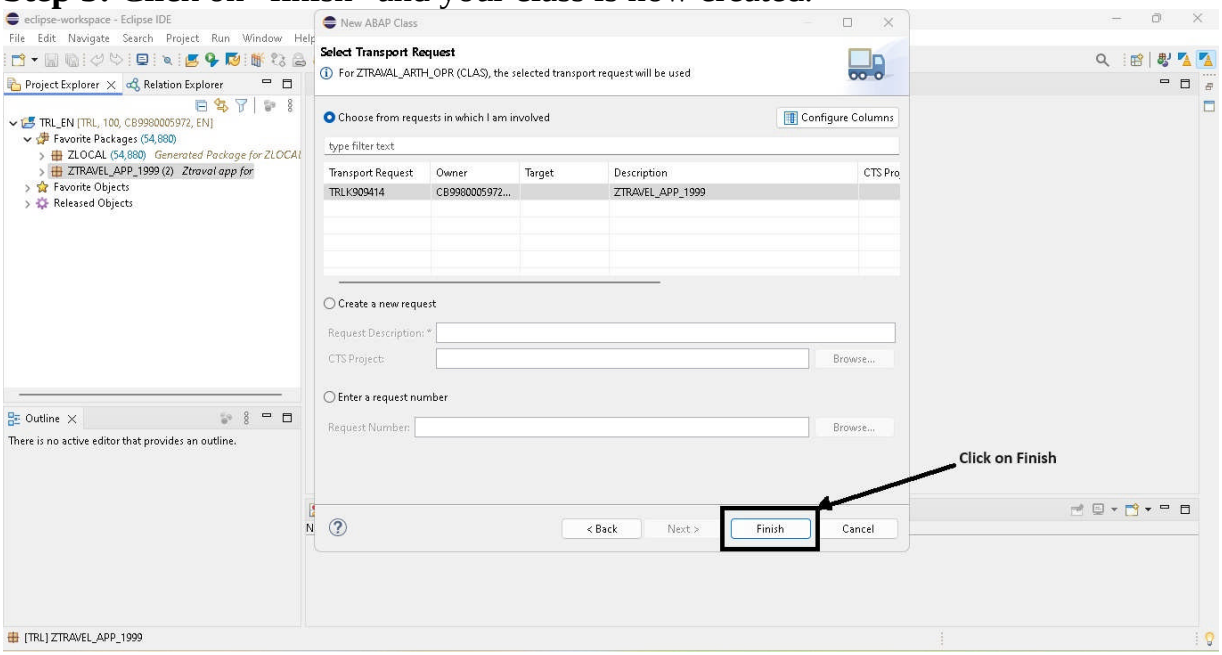


Step 2: Create the new class with following Description and click on next

- *Class Name: ZTRAVAL_ARTH_OPR*
- *Class Description: Class for performing Arithmetic operations*



Step 3: Click on “finish” and your class is now created.



Step 4 Observe the following code and add Highlighted part in your existing code.

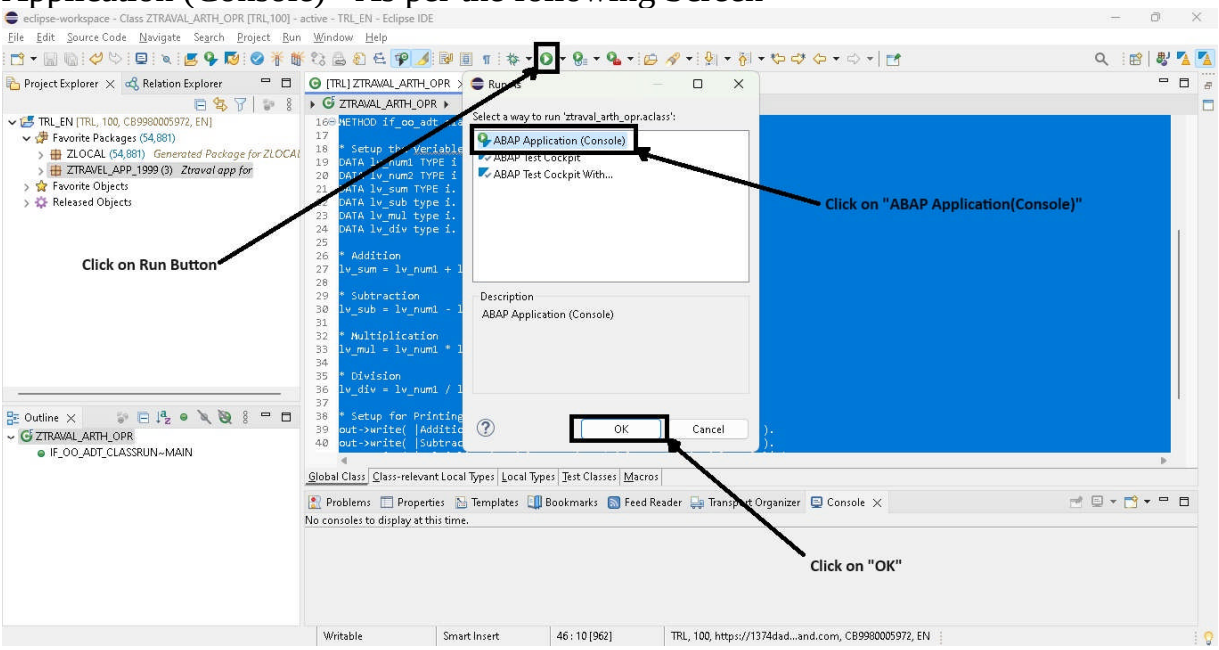
```
CLASS ztraval_arth_opr DEFINITION
  PUBLIC
  FINAL
  CREATE PUBLIC .

  PUBLIC SECTION.
  INTERFACES if_oo_adt_classrun.

  PROTECTED SECTION.
  PRIVATE SECTION.
ENDCLASS.



CLASS ztraval_arth_opr IMPLEMENTATION.
METHOD if_oo_adt_classrun~main.

* Setup the Veriables
DATA lv_num1 TYPE i VALUE 10.
DATA lv_num2 TYPE i VALUE 5.
DATA lv_sum TYPE i.
DATA lv_sub type i.
DATA lv_mul type i.
DATA lv_div type i.

* Addition
lv_sum = lv_num1 + lv_num2.
```

```
* Subtraction
lv_sub = lv_num1 - lv_num2.

* Multiplication
lv_mul = lv_num1 * lv_num2.

* Division
lv_div = lv_num1 / lv_num2.

* Setup for Printing the output
out->write( |Addition of { lv_num1 } and { lv_num2 } is { lv_sum }| ).
out->write( |Subtraction { lv_num1 } and { lv_num2 } is { lv_sub }| ).
out->write( |Multiplication { lv_num1 } and { lv_num2 } is { lv_mul }|
).
out->write( |Division { lv_num1 } and { lv_num2 } is  { lv_div }| ).


ENDMETHOD.
ENDCLASS.
```

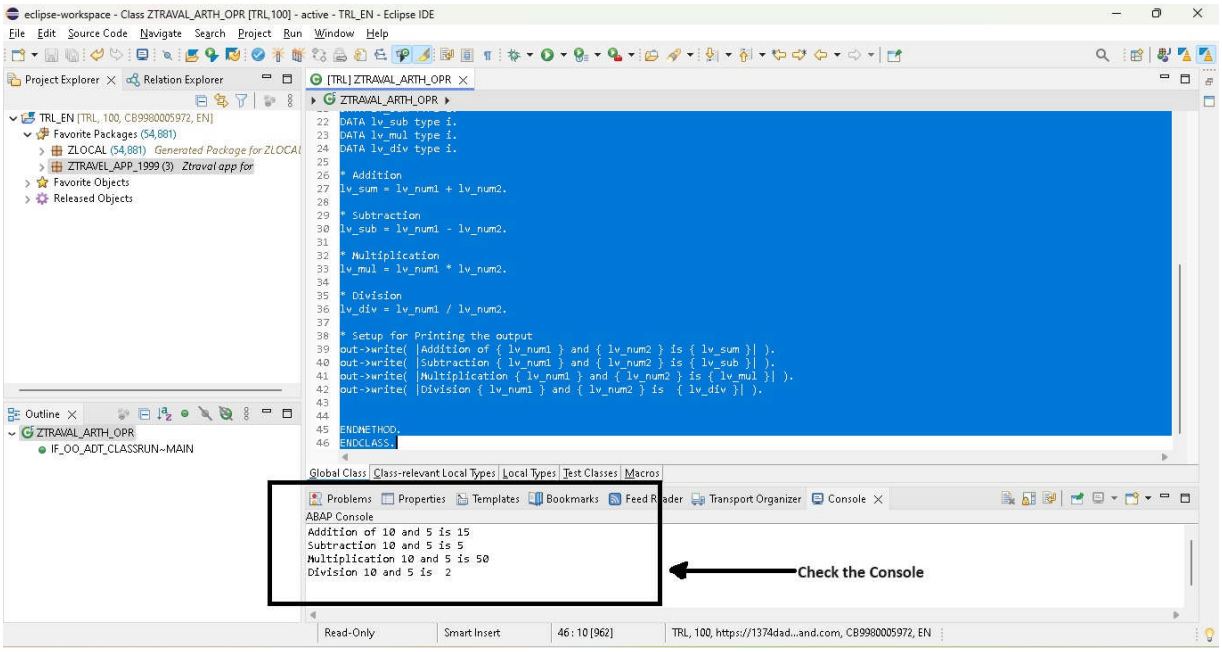
Step 5: Follow the following instructions and Run the code

a. CTRL+A → Select whole code
b. CTRL+S → Save that code
c. CTRL+F2 → To check the Syntax of code
d. CTRL+F3 → To activate the script

Then click on the run button → Click on “Run As” → Click on “ABAP Application (Console) <As per the following Screen>

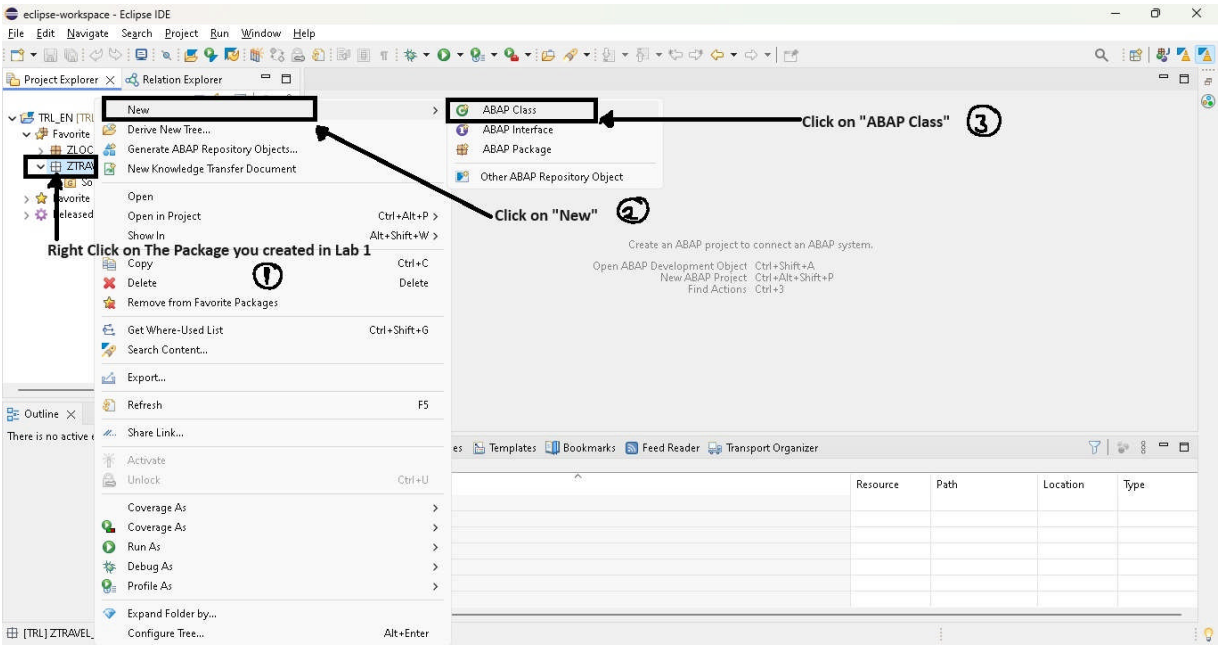


Step 6: Check your Console



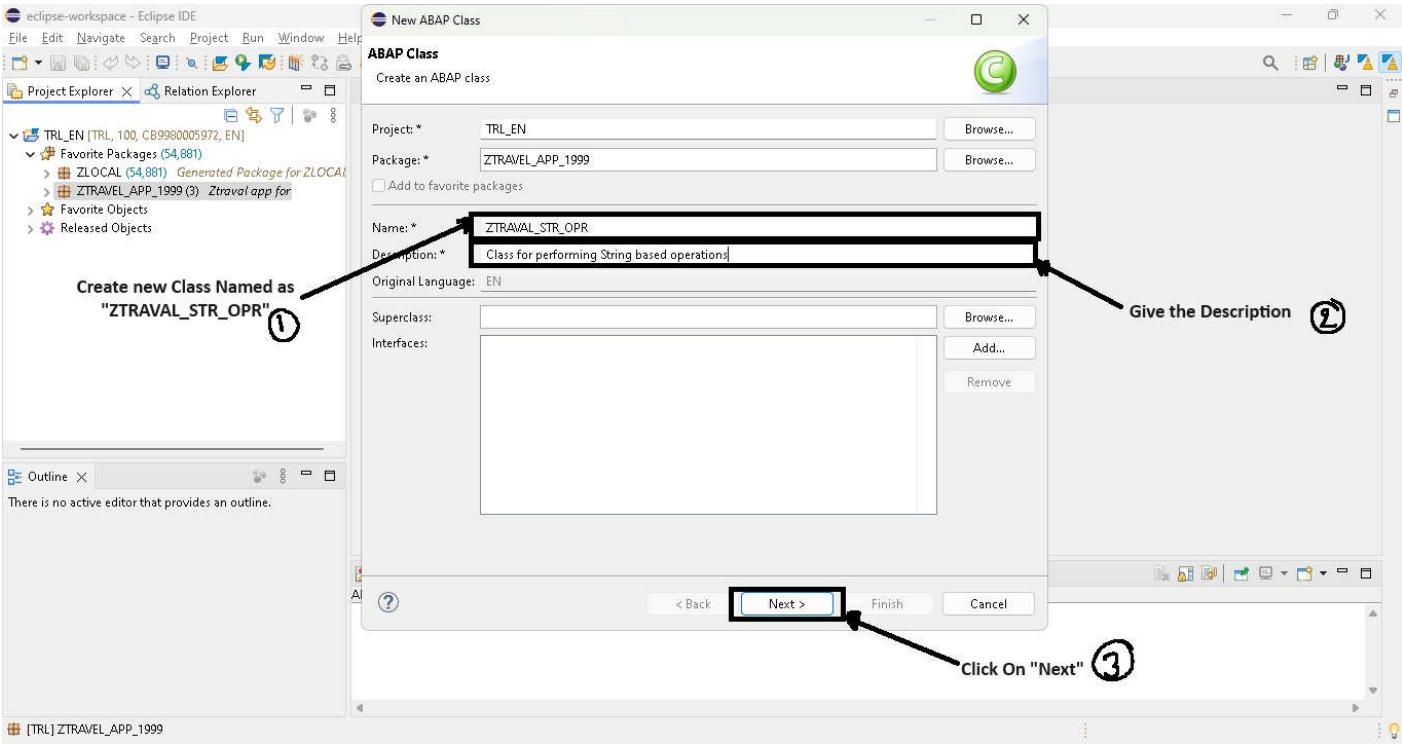
Sec B String Based Operations.

Step 1: Create the new class, Right click on the package you created in Lab1 → Click on “New” → Click on “ABAP Class”.

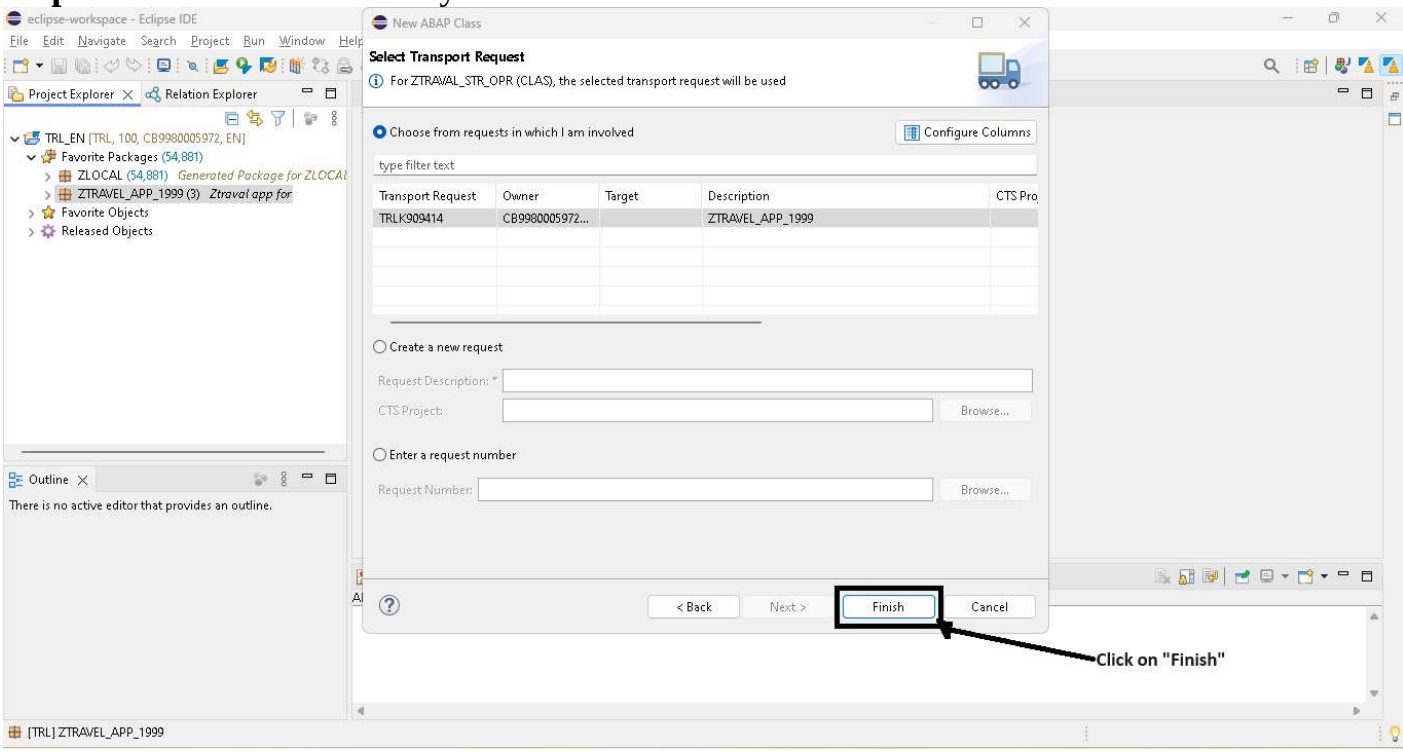


Step 2: Create the new class with following Description and click on next

a. *Class Name: ZTRAVAL_STR_OPR*
b. *Class Description: Class for performing String base operations*



Step 3: Click on “finish” and your class is now created.



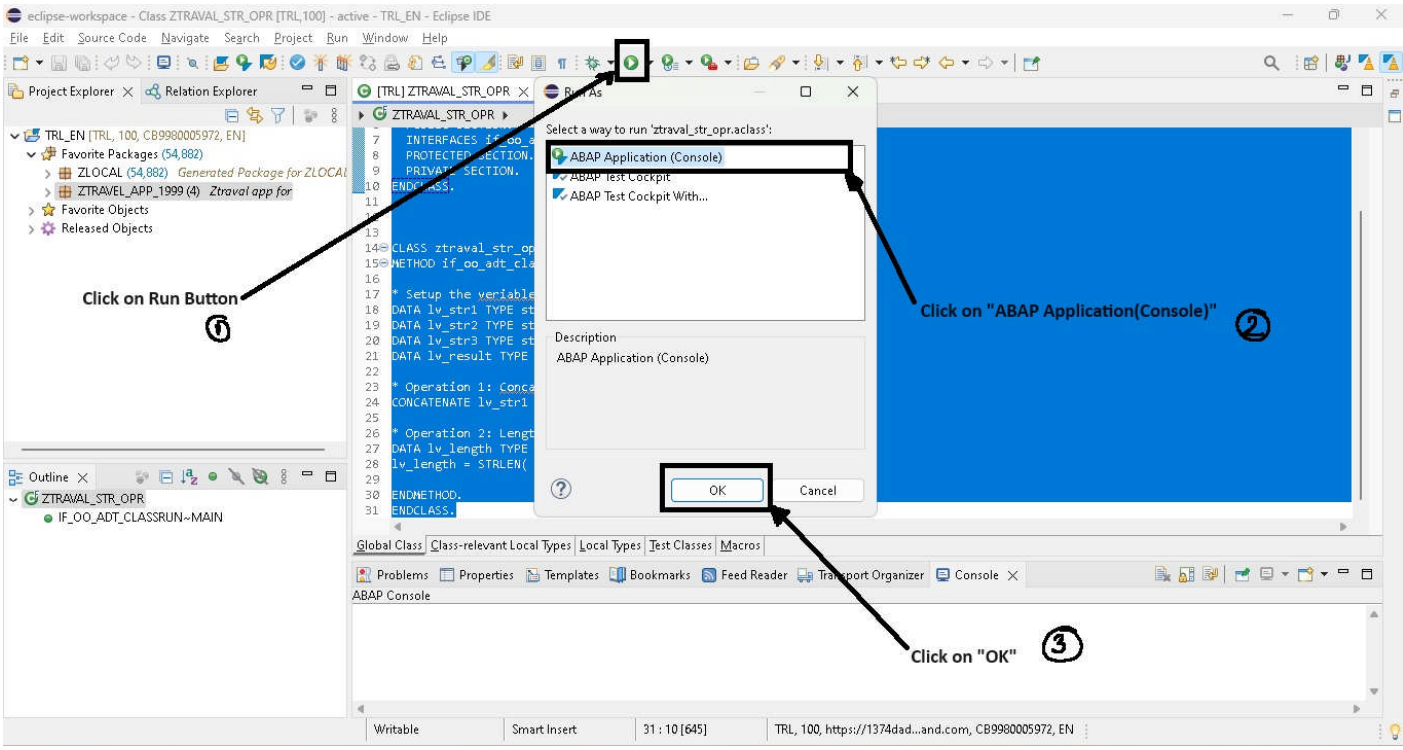
Step 4: Observe the following code and add Highlighted part in your existing code.

```
CLASS ztraval_str_opr DEFINITION
  PUBLIC
  FINAL
  CREATE PUBLIC .

  PUBLIC SECTION.
  INTERFACES if_oo_adt_classrun.
  PROTECTED SECTION.
  PRIVATE SECTION.
ENDCLASS.



CLASS ztraval_str_opr IMPLEMENTATION.
METHOD if_oo_adt_classrun~main.

* Setup the veriables
DATA lv_str1 TYPE string VALUE 'Hello'.
DATA lv_str2 TYPE string VALUE 'World'.
DATA lv_str3 TYPE string VALUE '_'.
DATA lv_result TYPE string.

* Operation 1: Concatination
CONCATENATE lv_str1 lv_str3 lv_str2 INTO lv_result.
out->write( |Result: { lv_result }| ).

* Operation 2: Length of Concatinated String
DATA lv_length TYPE i.
lv_length = STRLEN( lv_result ).
out->write( |Length: { lv_length }| ).


ENDMETHOD.
ENDCLASS.
```

Step 5: Follow the following instructions and Run the code

a. CTRL+A → Select whole code
b. CTRL+S → Save that code
c. CTRL+F2 → To check the Syntax of code
d. CTRL+F3 → To activate the script

Then click on the run button → Click on “Run As” → Click on “ABAP Application (Console) <As per the following Screen>



Step 6: Check your Console