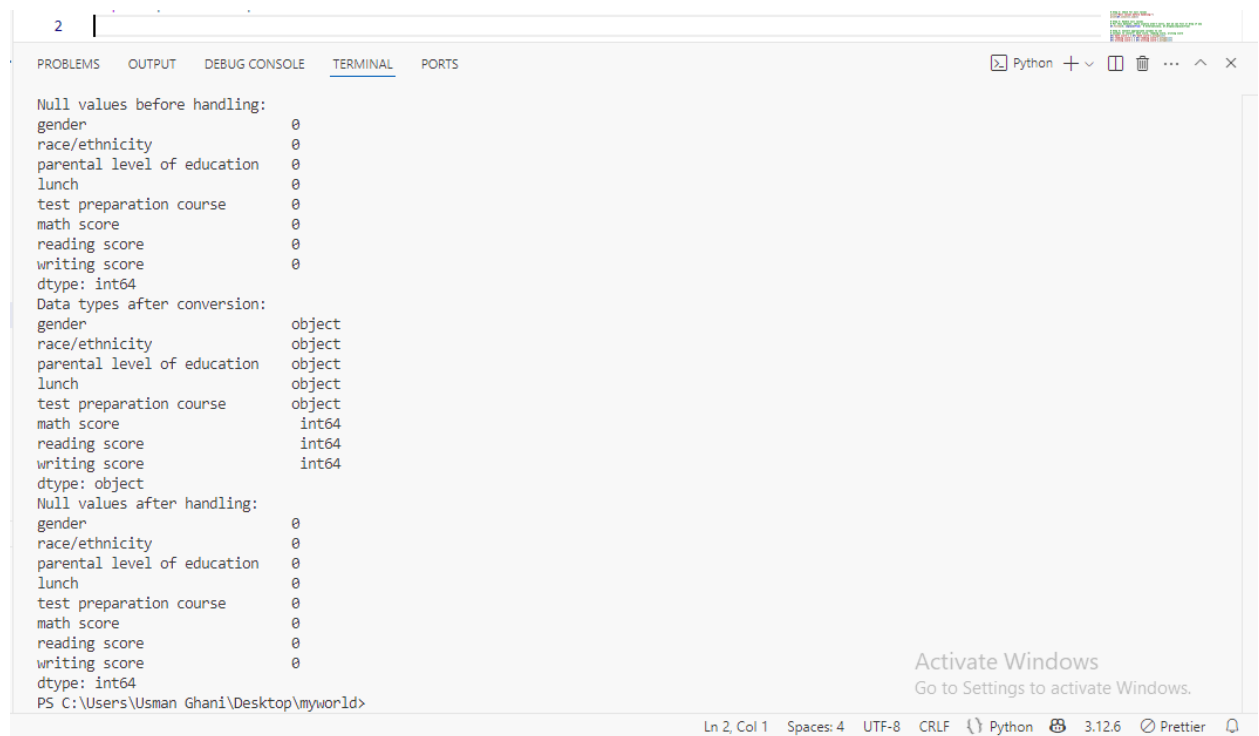


AI_LAB_Task10

- Imports the pandas library to handle data manipulation.
- Loads the dataset StudentsPerformance.csv into a DataFrame named df.
- Displays the first five rows of the dataset using df.head() to preview the data structure.
- Checks for any missing (null) values in the dataset with df.isnull().sum() and prints the result.
- Handles missing values by replacing all nulls with 0 using df.fillna(0, inplace=True). (Alternatively, you could drop rows with nulls using df.dropna()).
- Converts the columns 'math score', 'reading score', and 'writing score' from float (if applicable) to integer type using .astype(int).
- Prints the data types of all columns after conversion to confirm the changes.
- Re-checks and prints the number of null values post-handling to ensure data cleaning was successful.

Output:



```
2 |  
Null values before handling:  
gender          0  
race/ethnicity   0  
parental level of education  0  
lunch            0  
test preparation course  0  
math score       0  
reading score    0  
writing score    0  
dtype: int64  
Data types after conversion:  
gender          object  
race/ethnicity   object  
parental level of education  object  
lunch            object  
test preparation course  object  
math score       int64  
reading score    int64  
writing score    int64  
dtype: object  
Null values after handling:  
gender          0  
race/ethnicity   0  
parental level of education  0  
lunch            0  
test preparation course  0  
math score       0  
reading score    0  
writing score    0  
dtype: int64  
PS C:\Users\Usman Ghani\Desktop\myworld>
```

Activate Windows
Go to Settings to activate Windows.

Ln 2, Col 1 Spaces: 4 UTF-8 CRLF Python 3.12.6 Prettier