The first row of the matrix is skipped for column headers, if you don't have column headers delete the skiprows section on line 6.

```
from sklearn.metrics.pairwise import cosine_similarity
import numpy as np

def read_matrix_from_file(file_path, columns_to_read):
    # Read specific columns from the file
    matrix = np.loadtxt(file_path, usecols=columns_to_read, skiprows=1, delimi
    # Reshape matrix to make it a 2D array
    return np.reshape(matrix, (1, -1))

# Define the columns to read from the CSV files
columns_to_read = [4, 5, 6, 7, 8]
```

Change line 11 to specify which columns have data (in order 0 1 2 3 4 5 ... etc)

Change line 14 to be your own text files.

```
C:\Users\Bailey\Downloads\Research\Research\Coop\ABP-mkt-code\Solutions\UVP\proc_plans\UVP_market_assignments_Coverage_3_BH_proc_plans.csv
C:\Users\Bailey\Downloads\Research\Research\Coop\ABP-mkt-code\Solutions\UVP\proc_plans\UVP_market_assignments_GOVerage_3_MC_proc_plans.csv
C:\Users\Bailey\Downloads\Research\Research\Coop\ABP-mkt-code\Solutions\UVP\proc_plans\UVP_market_assignments_GNI_3_BH_proc_plans.csv
C:\Users\Bailey\Downloads\Research\Research\Coop\ABP-mkt-code\Solutions\UVP\proc_plans\UVP_market_assignments_GNI_3_MC_proc_plans.csv
```

The text files should be like this.

```
Cosine Similarity Matrix:
[[1.
            0.26151499 0.94037067 0.31971079 0.29922971 0.55030284
  0.22855917 0.58266196]
 [0.26151499 1. 0.24198729 0.74923559 0.38129152 0.50416335
  0.33583592 0.39078646]
 [0.94037067 0.24198729 1. 0.35580532 0.33375935 0.59151927
  0.23304409 0.56686622]
 [0.31971079 0.74923559 0.35580532 1. 0.62961382 0.58709729
  0.34618836 0.4870105 ]
 [0.29922971 0.38129152 0.33375935 0.62961382 1. 0.66195976
  0.36166074 0.6487791 ]
 [0.55030284 0.50416335 0.59151927 0.58709729 0.66195976 1.
  0.39444911 0.777548841
 [0.22855917 0.33583592 0.23304409 0.34618836 0.36166074 0.39444911
           0.40296417]
 [0.58266196 \ 0.39078646 \ 0.56686622 \ 0.4870105 \ 0.6487791 \ 0.77754884
  0.40296417 1. ]]
```

You might want save the resulting matrix to a dataframe, I just did mine manually.