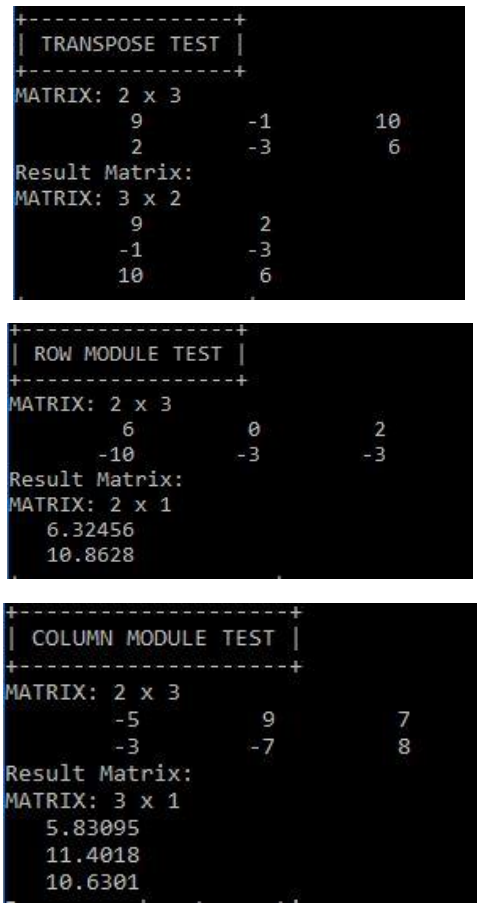
QUIZ:

Add a new feature to the program written in lab experiment:

Write required functions to calculate the Transpose, Row Module and Column Module of the given Matrix. Use given function prototypes, sample output and calculation formulas. Also you need to write a test code similar to prelab activity.

```
void Matrix_Transpose(const Matrix& matrix, Matrix& result);
void Matrix_Row_Module(const Matrix& matrix, Matrix& result);
void Matrix_Column_Module(const Matrix& matrix, Matrix& result);
```

Sample Ouput:



Problem-Solving Tips

1. Call `Matrix_Allocate` function for the given result `Matrix` and for required sizes and performs matrix transpose operation for the given matrix by saving the result into the `Matrix` named result.
2. Call `Matrix_Allocate` function for the given result `Matrix` and for required sizes and performs matrix row module operation for the given matrix by saving the result into the `Matrix` named result.
3. Call `Matrix_Allocate` function for the given result `Matrix` and for required sizes and performs matrix column module operation for the given matrix by saving the result into the `Matrix` named result.