Assign 1:

Assumption  
1. Polytope is non-degenerate.  
2. Polytope is bounded  
3. Rak of A is n   
  
Implement the simplex algorithm to maximize the objective function, You need to implement the method discussed in class.   
  
Input: CSV file with m+2 rows and n+1 column.   
             The first row excluding the last element is the initial feasible point z of length n  
             The second row excluding the last element is the cost vector c of length n  
             The last column excluding the top two elements is the constraint vector b of length m  
             Rows third to m+2 and column one to n is the matrix A of size m\*n  
  
Output: You need to print the sequence of vertices visited and the value of the objective function at that vertex

Assign 2:

Assumption  
1. Polytope is non-degenerate.  
2. Rak of A is n   
  
Implement the simplex algorithm to maximize the objective function, You need to implement the method discussed in class.   
  
Input: CSV file with m+2 rows and n+1 column.   
             The first row excluding the last element is the initial feasible point z of length n  
             The second row excluding the last element is the cost vector c of length n  
             The last column excluding the top two elements is the constraint vector b of length m  
             Rows third to m+2 and column one to n is the matrix A of size m\*n  
  
Output: You need to print the sequence of vertices visited and the value of the objective function at that vertex

Assign 3:

Assumption  
1. Rak of A is n   
  
Implement the simplex algorithm to maximize the objective function, You need to implement the method discussed in class.   
  
Input: CSV file with m+2 rows and n+1 column.   
             The first row excluding the last element is the initial feasible point z of length n  
             The second row excluding the last element is the cost vector c of length n  
             The last column excluding the top two elements is the constraint vector b of length m  
             Rows third to m+2 and column one to n is the matrix A of size m\*n  
  
Output: You need to print the sequence of vertices visited and the value of the objective function at that vertex

Assign 4:

Assumption  
1. Rak of A is n   
  
Implement the simplex algorithm to maximize the objective function, You need to implement the method discussed in class.   
  
Input: CSV file with m+1 rows and n+1 column.   
             The first row excluding the last element is the cost vector c of length n  
             The last column excluding the top element is the constraint vector b of length m  
             Rows two to m+1 and column one to n is the matrix A of size m\*n  
  
Output: You need to print the sequence of vertices visited and the value of the objective function at that vertex