Algorithm for Maximum sum of path of triangle:

I have used the bottom-up approach to solve this problem. The idea is to start at the bottom row and collapse the triangle row by row till there is just one value left.

- 1. Let all the rows of the triangle be in a list of lists.
- 2. Create a list of tuples containing the values of the last row and a list with elements in the path (For last row, the path will be itself)
- 3. Pop the last row
- 4. Get the elements of the current last row
- 5. For each element v in current last row

Find the max of the left or right element in the row below it (popped row) Add the max value to v and add to the path of v, the value v and the path of the max value

- 6. Continue steps 3-5 until there are no more rows left.
- 7. Return the first element of the list of lists of tuples.