

We created a token object that contains the fields Token->word and Token->type. This program runs by passing everything on the command line into TKCreate from the main. In TKCreate, the program parses the string letter by letter checking to see if it hits any indicators of a new token. Once it does, it inserts an end of line character '\0' and then returns the token to TKGetNextToken. In TKGetNextToken, the program checks Token->type to see which category to place the token into after which it prints the correct output. At the end of the program, the default case destroys the token by freeing the memory eliminating all memory leaks. Our program only creates one Token and changes the Token->word each time it parses. We also did the comment extra credit so if // appears the rest does not appear and anything in between /* and */ does not appear.