SCHOOL OF COMPUTER SCIENCE

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Log book for user: a1779153 for assignment: **2020/s2/cs/assignment1**

Log book entries - newest entries first

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Next Logbook Entry:

Type the text of your new logbook entry here:

Include a Diagram - if required:
note: images of scanned text are not acceptable.

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Datestamp	Entry
11 Sep 2020 23:59:59	**11 Sep 2020 23:59:59**
11 Sep 2020 23:38:46 Kind: Text, by: a1779153, from: 118_210_52_148	Reflection for Assignment 1 - Vandit Gajjar - a1779153 next_token() in Tokeniser file reads each start of the token and calls respective parse_*() to parse characters into the spelling (nextch()) and create a token based on the grammar of the language. Function

new_token() is used to create tokens and return to the tokens.cpp file. new_token () in tokeniser-basics.cpp call new_token() which defines the kind spelling and its line and column numbers. I have also pre-processed '\t' to replace with 4 spaces and replace '\r' with '\n' and ignore if it is followed by '\n'.
Along with determining tokens in this assignment, I am printing tokens-context which creates a string and prints the location and spelling of the token in the test file.

Illegal token characters are found by using c_mustbe() which throws a fatal error if there is a different character than expected.

In this assignment we were also told to preprocess the numbers, for instance, remove any trailing zeros, for that, I
determined the last index from the end which is non-zero, and take substring till that index. Which will be the correct spelling of the token.

The properties of a token like its length and line, column info helped in the tokens-context function to determine the location of the specific token. In tokens-context, I had to handle eol_comments and adhoc_comment cases separately as the token spelling did not include "//" and '$' at the end, and "/*" "*/" respectively and were present in its context.

Based on my passed test cases it was clear that I was not able to successfully implement my scientific number. I understood the question but could not figure out the implementation. I believe this is the reason, I was not able to solve 2 known test cases and many other secret test cases.

Overall, I believe I have developed a deeper understanding of how a tokeniser works and tokeniser functions and its application to determine tokens.

Missing Logbook Entry	**Missing Logbook Entry**
11 Sep 2020 18:36:22 Web Submission, from: 129_127_232_111	Submitted Revision: 567 to Assignment 1 - Submit Here
11 Sep 2020 18:36:05 SVN Log Entry	r567	a1779153	2020-09-11 18:36:05 +0930 (Fri, 11 Sep 2020)	1 line Changed paths: M /2020/s2/cs/assignment1/tokeniser-basics.cpp M /2020/s2/cs/assignment1/tokeniser.cpp M /2020/s2/cs/assignment1/updates/log added comments in the code
11 Sep 2020 18:27:00	Working …
Missing Logbook Entry	**Missing Logbook Entry**
11 Sep 2020 00:37:19 Web Submission, from: 118_210_52_148	Submitted Revision: 566 to Assignment 1 - Submit Here
11 Sep 2020 00:37:00 SVN Log Entry	r566	a1779153	2020-09-11 00:37:00 +0930 (Fri, 11 Sep 2020)	1 line Changed paths: M /2020/s2/cs/assignment1/tokeniser-basics.cpp M /2020/s2/cs/assignment1/tokeniser.cpp M /2020/s2/cs/assignment1/updates/log Adding authorship on cpp files
11 Sep 2020 00:36:03	Working …
10 Sep 2020 23:59:59	**10 Sep 2020 23:59:59**
10 Sep 2020 15:10:29 Kind: Text, by: a1779153, from: 129_127_232_156	I have updated nextch() to correctly identify line and column number for adhoc_comments. I have also updated tokens_context() to add "/*" + comment in the context (if the comment has more than 1 line). else add "/*" and

"*/" the to comment line.

10 Sep 2020 15:07:39 Web Submission, from: 129_127_232_156	Submitted Revision: 565 to Assignment 1 - Submit Here

10 Sep 2020 15:07:22 SVN Log Entry	r565 | a1779153 | 2020-09-10 15:07:22 +0930 (Thu, 10 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser-basics.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	modified token_context() - adhoc_comment

10 Sep 2020 15:06:04	Working …
*** 2 Hours	*** 2 Hours ***
10 Sep 2020 14:59:04	Working …
10 Sep 2020 14:52:57 Kind: Text, by: a1779153, from: 129_127_232_156	I have updated nextch() to correctly identify line and column number for eol_comments. I have also updated tokens_context() to add "//" +comment+ '$' in the context.
10 Sep 2020 14:50:52 Web Submission, from: 129_127_232_156	Submitted Revision: 564 to Assignment 1 - Submit Here

10 Sep 2020 14:50:37 SVN Log Entry	r564 | a1779153 | 2020-09-10 14:50:37 +0930 (Thu, 10 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser-basics.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	updated tokens_context()- eol_comment

10 Sep 2020 14:49:12	Working …
10 Sep 2020 14:39:01 Kind: Text, by: a1779153, from: 129_127_232_156	I have modified new_token() to update the line number and column number for a newline character. Also modified tokens_context() to remove newline and print '$' (if it is the current token)
10 Sep 2020 14:35:53 Web Submission, from: 129_127_232_156	Submitted Revision: 563 to Assignment 1 - Submit Here

10 Sep 2020 14:35:27 SVN Log Entry	r563 | a1779153 | 2020-09-10 14:35:27 +0930 (Thu, 10 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser-basics.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	fixed tokens_context()

10 Sep 2020 14:34:39	Working …
10 Sep 2020 14:14:09 Kind: Text, by: a1779153, from: 129_127_232_156	I have implemented tokens_context() which uses insertLineNum() to insert line number with appropriate spaces. I have created data[] which stores all line characters as the test file is read. The tokens_context() only displays the line where token is and a line before(if present). It adds '$' symbol whenever there is '/n' followed by a newline. I have also added '^' symbol which denotes start of token.
10 Sep 2020 14:09:14 Web Submission, from: 129_127_232_156	Submitted Revision: 562 to Assignment 1 - Submit Here

10 Sep 2020 14:08:44 SVN Log Entry	r562 | a1779153 | 2020-09-10 14:08:44 +0930 (Thu, 10 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser-basics.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	implemented tokens-context() and solved 0doubles.final

10 Sep 2020 14:07:00	Working …
*** 1 Hour	*** 1 Hour ***
10 Sep 2020 13:58:59	Working …

09 Sep 2020 23:59:59	**09 Sep 2020 23:59:59**
09 Sep 2020 16:37:51 Kind: Text, by: a1779153, from: 129_127_232_156	Worked on parse_integer() to add fraction and to check for exponent
09 Sep 2020 16:36:28 Web Submission, from: 129_127_232_156	Submitted Revision: 561 to Assignment 1 - Submit Here

09 Sep 2020 16:35:09 SVN Log Entry	r561 | a1779153 | 2020-09-09 16:35:09 +0930 (Wed, 09 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	updated parse_integer()

09 Sep 2020 16:34:24	Working …
*** 6 Hours	***** 6 Hours *****
09 Sep 2020 16:19:56 Web Submission, from: 129_127_232_156	Submitted Revision: 560 to Assignment 1 - Submit Here

09 Sep 2020 16:18:52 SVN Log Entry	r560 | a1779153 | 2020-09-09 16:18:52 +0930 (Wed, 09 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser-basics.cpp
	  M /2020/s2/cs/assignment1/tokeniser.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	modified parse_adhoc()

09 Sep 2020 16:17:36	Working …
09 Sep 2020 16:02:57 Kind: Text, by: a1779153, from: 129_127_232_156	I worked on nextch() to preprocess '\r'. It remembers an additional character and discards it if it is '\n' else it will replace current character with '\n' and uses remembered character in the next nextch() call.
09 Sep 2020 16:00:08 Web Submission, from: 129_127_232_156	Submitted Revision: 559 to Assignment 1 - Submit Here

09 Sep 2020 15:59:28 SVN Log Entry	r559 | a1779153 | 2020-09-09 15:59:28 +0930 (Wed, 09 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser-basics.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	worked on \r preprocessing

09 Sep 2020 15:58:26	Working …
09 Sep 2020 15:33:36 Kind: Text, by: a1779153, from: 129_127_232_156	updated case'/' in parse_symbol() to read eol and adhoc comments. Also modified the spelling for eol comment to remove "//" and "\n" from the token spelling
09 Sep 2020 15:31:50 Web Submission, from: 129_127_232_156	Submitted Revision: 558 to Assignment 1 - Submit Here

09 Sep 2020 15:31:26 SVN Log Entry	r558 | a1779153 | 2020-09-09 15:31:26 +0930 (Wed, 09 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	updated parse_symbol()

09 Sep 2020 15:30:13	Working …
*** 5 Hours	***** 5 Hours *****
09 Sep 2020 15:12:08 Kind: Text, by: a1779153, from: 129_127_232_156	updated parse_symbol() there was a case missing for '<' and '>'. Also added c_have to see if '>' is present and c_mustbe() to verify it is present.

09 Sep 2020 15:10:00 Web Submission, from: 129_127_232_156	Submitted Revision: 557 to Assignment 1 - Submit Here

09 Sep 2020 15:09:01 SVN Log Entry	r557 | a1779153 | 2020-09-09 15:09:01 +0930 (Wed, 09 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	updated parse_symbol function

09 Sep 2020 15:08:13	Working …
09 Sep 2020 14:58:20 Kind: Text, by: a1779153, from: 129_127_232_156	I have worked on preprocessing '\t' and replaced it by blank spaces. Also I look for keywords using keyword_or_identifier function and classified based on its token spelling
09 Sep 2020 14:55:13 Web Submission, from: 129_127_232_156	Submitted Revision: 556 to Assignment 1 - Submit Here

09 Sep 2020 14:54:52 SVN Log Entry	r556 | a1779153 | 2020-09-09 14:54:52 +0930 (Wed, 09 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser-basics.cpp
	  M /2020/s2/cs/assignment1/tokeniser.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	worked on \t preprocessing and keywords

09 Sep 2020 14:53:48	Working …
*** 4 Hours	*** 4 Hours ***
09 Sep 2020 14:19:09	Working …
09 Sep 2020 14:05:45 Kind: Text, by: a1779153, from: 129_127_232_156	I have worked on parsing symbols. I used c_mustbe() function to check for '=' char. Using different switch cases I created tokens for different tokens.
Missing Logbook Entry	**Missing Logbook Entry**
09 Sep 2020 14:01:37 Web Submission, from: 129_127_232_156	Submitted Revision: 555 to Assignment 1 - Submit Here

09 Sep 2020 14:00:58 SVN Log Entry	r555 | a1779153 | 2020-09-09 14:00:58 +0930 (Wed, 09 Sep 2020) | 1 line
	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser-basics.cpp
	  M /2020/s2/cs/assignment1/tokeniser.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	1char-symbols.milestone test case solved

Missing 2 SVN Commits	**Missing 2 SVN Commits**
09 Sep 2020 13:59:43	Working …
*** 3 Hours	*** 3 Hours ***
09 Sep 2020 12:56:10	Working …
*** 2 Hours	*** 2 Hours ***
09 Sep 2020 12:19:16	Working …
09 Sep 2020 11:37:51 Kind: Text, by: a1779153, from: 129_127_232_156	I have worked on 0identifiers.milestone test case and was able to detect identifiers
09 Sep 2020 11:36:40 Web Submission, from: 129_127_232_156	Submitted Revision: 554 to Assignment 1 - Submit Here
09 Sep 2020 11:35:13 SVN Log Entry	r554 | a1779153 | 2020-09-09 11:35:13 +0930 (Wed, 09 Sep 2020) | 1 line

	Changed paths:
	  M /2020/s2/cs/assignment1/tokeniser.cpp
	  M /2020/s2/cs/assignment1/updates/log
	
	0identifiers.milestone test case solved

09 Sep 2020 11:29:46	Working …
*** 1 Hour	*** 1 Hour ***
09 Sep 2020 11:19:38	Working …
Skipped 1 day …	**Skipped 1 day …**
07 Sep 2020 23:59:59	**07 Sep 2020 23:59:59**
Missing Logbook Entry	**Missing Logbook Entry**
Missing SVN Commit	**Missing SVN Commit**
07 Sep 2020 19:13:47	Working …
07 Sep 2020 18:59:12 Kind: Text, by: a1779153, from: 10_32_62_6	Initially added everything on my workstation, compiled the data zip file and submitted the intial version to web submission.
07 Sep 2020 18:57:52 Web Submission, from: 10_32_62_6	Submitted Revision: 553 to Assignment 1 - Submit Here

07 Sep 2020 18:57:40 SVN Log Entry	r553	a1779153	2020-09-07 18:57:40 +0930 (Mon, 07 Sep 2020)	1 line
				Changed paths:
				  A /2020/s2/cs/assignment1/updates/assignment1-20200901-142352.zip
				  M /2020/s2/cs/assignment1/updates/log
				
				Adding zip file and running websubmission

07 Sep 2020 18:55:39 Web Submission, from: 10_32_62_6	Submitted Revision: 552 to Assignment 1 - Submit Here
07 Sep 2020 18:55:18 Kind: Text, by: a1779153, from: 10_32_62_6	Initialised logbook.
07 Sep 2020 18:32:04	Working …

07 Sep 2020 18:31:26 SVN Log Entry	r552	a1779153	2020-09-07 18:31:26 +0930 (Mon, 07 Sep 2020)	1 line
				Changed paths:
				  A /2020/s2/cs/assignment1/tests
				  A /2020/s2/cs/assignment1/tokeniser-basics.cpp
				  A /2020/s2/cs/assignment1/tokeniser.cpp
				  M /2020/s2/cs/assignment1/updates/log
				
				Assignment 1 Startup Files

07 Sep 2020 18:30:04	Working …
Skipped 30 days …	**Skipped 30 days …**
07 Aug 2020 23:59:59	**07 Aug 2020 23:59:59**

07 Aug 2020 00:04:44 SVN Log Entry	r504	a1779153	2020-08-07 00:04:44 +0930 (Fri, 07 Aug 2020)	1 line
				Changed paths:
				  A /2020/s2/cs/assignment1
				  A /2020/s2/cs/assignment1/Makefile
				  A /2020/s2/cs/assignment1/updates
				  A /2020/s2/cs/assignment1/updates/installer.bash
				  A /2020/s2/cs/assignment1/updates/log

	A /2020/s2/cs/assignment1/updates/updater.bash
	cs-directory-structure
Estimated Total Time 12 hours	**Estimated Total Time 12 hours**

Authorised by: Head of School, School of Computer Science
Maintained by: School of Computer Science
Last Updated: 8 Feb 2020

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