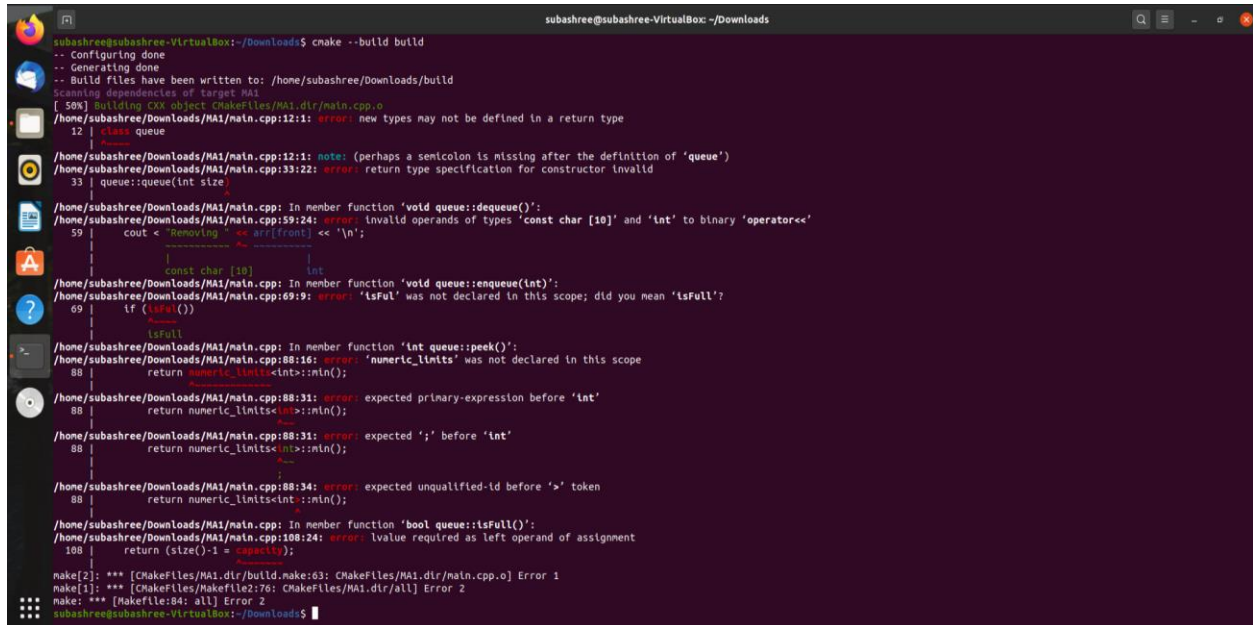
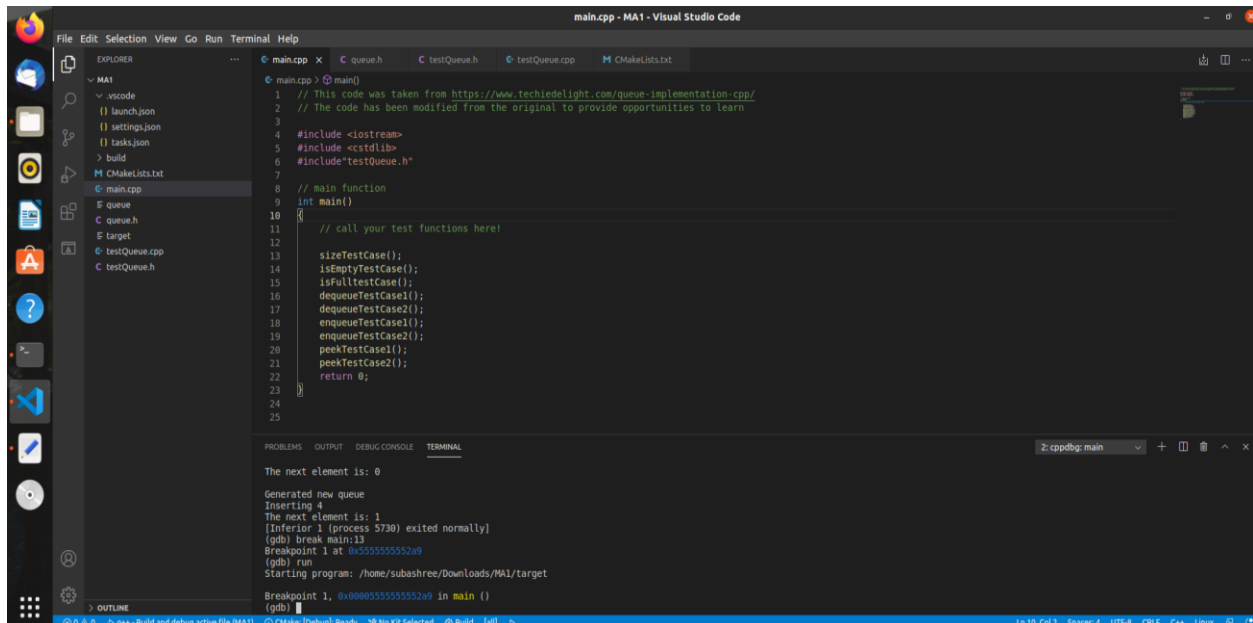


1. screen shot of the syntax errors listed in the initial code after I built the code with cmake in the Linux terminal



```
subashree@subashree-VirtualBox: ~/Downloads$ cmake --build build
-- Configuring done
-- Generating done
-- Build files have been written to: /home/subashree/Downloads/build
Scanning dependencies of target MA1
[ 50%] Building CXX object CMakeFiles/MA1.dir/main.cpp.o
/home/subashree/Downloads/MA1/main.cpp:12:11: error: new types may not be defined in a return type
12 | class queue
    | ^~~~~
/home/subashree/Downloads/MA1/main.cpp:12:11: note: (perhaps a semicolon is missing after the definition of 'queue')
/home/subashree/Downloads/MA1/main.cpp:33:22: error: return type specification for constructor invalid
33 | queue::queue(int size)
    | ^~~~~
/home/subashree/Downloads/MA1/main.cpp: In member function 'void queue::dequeue()':
/home/subashree/Downloads/MA1/main.cpp:59:24: error: invalid operands of types 'const char [10]' and 'int' to binary 'operator<<'
59 | cout << "Removing " << arr[front] << "\n";
    |                   ^~
/home/subashree/Downloads/MA1/main.cpp: In member function 'void queue::enqueue(int)':
/home/subashree/Downloads/MA1/main.cpp:69:9: error: 'isFull' was not declared in this scope; did you mean 'isFull'?
69 | if (isFull())
    |     ^~~~~~
/home/subashree/Downloads/MA1/main.cpp: In member function 'int queue::peek()':
/home/subashree/Downloads/MA1/main.cpp:88:16: error: 'numeric_limits' was not declared in this scope
88 | return numeric_limits<int>::min();
    |                ^~~~~~
/home/subashree/Downloads/MA1/main.cpp:88:31: error: expected primary-expression before 'int'
88 | return numeric_limits<int>::min();
    |                               ^~~
/home/subashree/Downloads/MA1/main.cpp:88:31: error: expected ';' before 'int'
88 | return numeric_limits<int>::min();
    |                               ^
/home/subashree/Downloads/MA1/main.cpp:88:34: error: expected unqualified-id before '>' token
88 | return numeric_limits<int>::min();
    |                               ^
/home/subashree/Downloads/MA1/main.cpp: In member function 'bool queue::isFull()':
/home/subashree/Downloads/MA1/main.cpp:108:24: error: lvalue required as left operand of assignment
108 | return (size()-1) = capacity();
    |                   ^
make[2]: *** [CMakeFiles/MA1.dir/build.make:63: CMakeFiles/MA1.dir/main.cpp.o] Error 1
make[1]: *** [CMakeFiles/Makefile2:76: CMakeFiles/MA1.dir/all] Error 2
make: *** [Makefile:84: all] Error 2
subashree@subashree-VirtualBox: ~/Downloads$
```

2. Show a screen shot or picture of one break point that you have added to a unit to debug, where the bug was identified by one of your test cases. The debugger used must be a Linux tool(gdb, CLion, or VS Code)



```
main.cpp - MA1 - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
MA1
  launch.json
  settings.json
  tasks.json
  build
  CMakeLists.txt
  main.cpp
  queue
  queue.h
  target
  testQueue.cpp
  testQueue.h
  CMakeLists.txt
main.cpp
1 // This code was taken from https://www.techiedelight.com/queue-implementation-cpp/
2 // The code has been modified from the original to provide opportunities to learn
3
4 #include <iostream>
5 #include <cstdlib>
6 #include "testQueue.h"
7
8 // main function
9 int main()
10 {
11     // call your test functions here!
12
13     sizeTestCase();
14     isEmptyTestCase();
15     isFullTestCase();
16     dequeueTestCase();
17     enqueueTestCase();
18     enqueueTestCase2();
19     peekTestCase();
20     peekTestCase2();
21     return 0;
22 }
23
24
25
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
The next element is: 0
Generated new queue
Inserting 4
The next element is: 1
[Inferior 1 (process 5730) exited normally]
(gdb) break main:13
Breakpoint 1 at 0x5555555552a9
(gdb) run
Starting program: /home/subashree/Downloads/MA1/target
Breakpoint 1, 0x00005555555552a9 in main ()
(gdb)
```

^I used gdb to add a breakpoint at line 13 of my main.cpp file!