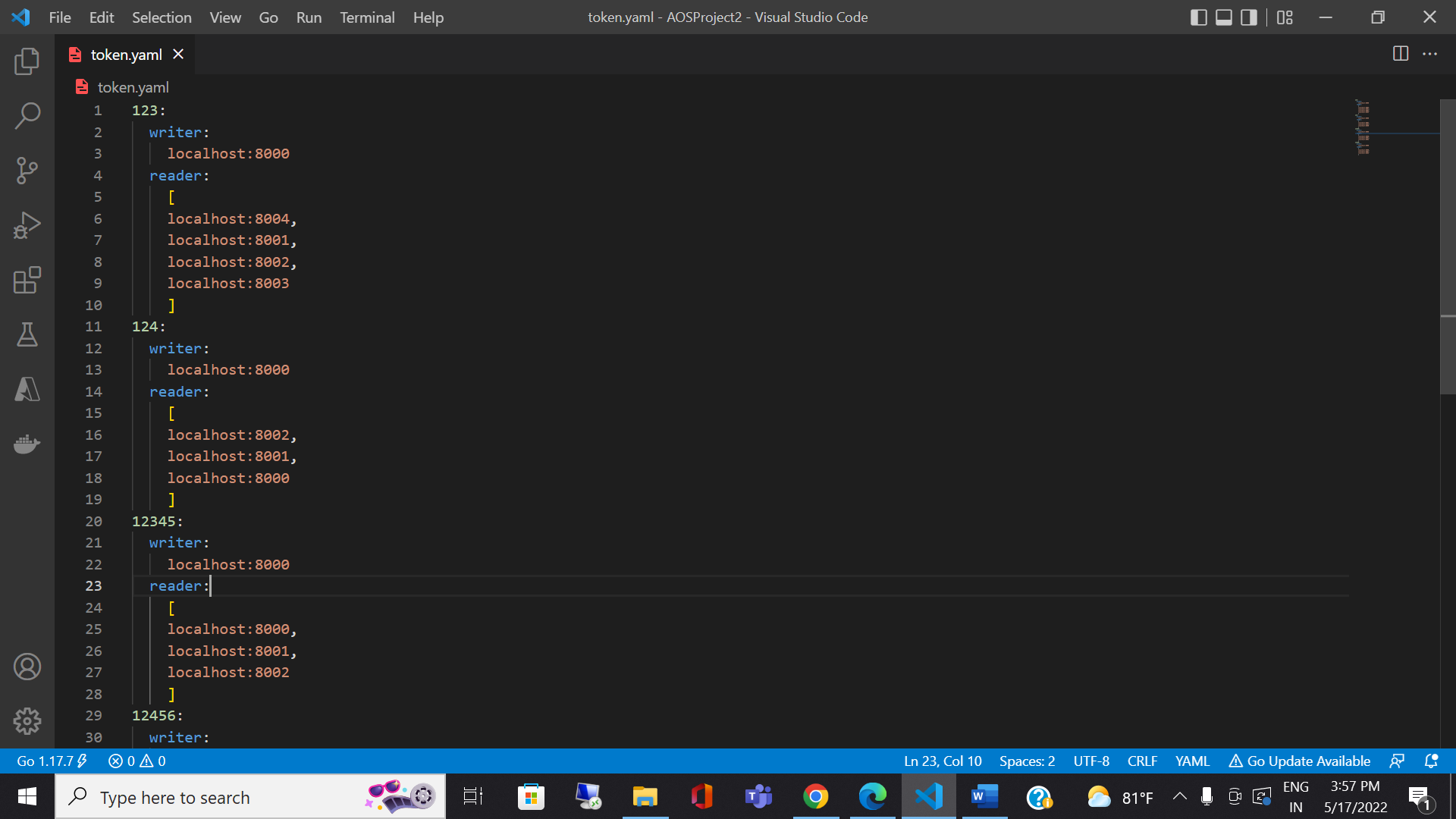
**PROJECTAOS3**

1. The yaml file which I’m using for this project:



1. While starting the server itself I’m initializing the tokens:

A screenshot of a computer

Description automatically generated

1. Performing the write operation on one token and replicating it in other servers:

Client screen:

A screenshot of a computer

Description automatically generated

Writer node output:

A screenshot of a computer

Description automatically generated

Reader node output:

A screenshot of a computer

Description automatically generated

1. Now out of 3 nodes I’m shutting down one server and showing how replication is done

Server listening at 8001 port got stopped

A screenshot of a computer

Description automatically generated

Client output:

A screenshot of a computer

Description automatically generated

Writer node output:

A screenshot of a computer

Description automatically generated

Even though one server stopped the write performed successfully because its written more than half of the nodes

1. Now lets stop two nodes(more than n/2 servers got stopped):

Client screen:

A screenshot of a computer

Description automatically generated

writer screen: as its not committed in n/2+1 nodes this commit got discarded

A screenshot of a computer

Description automatically generated

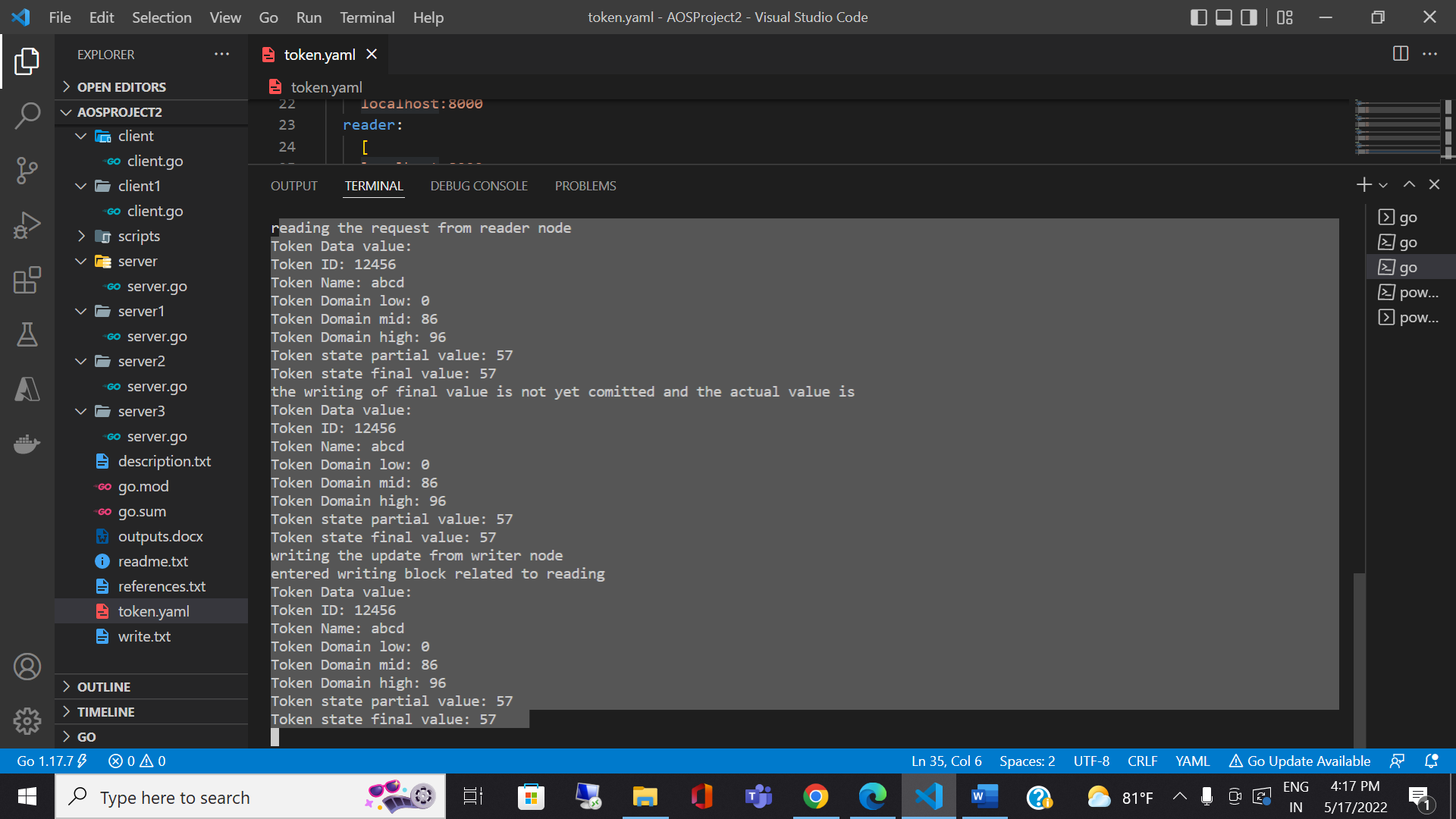
6.performing the read operation and making it reflect in n/2+1 nodes to preserve read impose write all protocol:

Client output:

A picture containing text

Description automatically generated

Server output:



Making sure the commit is performed after reading back from all the nodes

A screenshot of a computer

Description automatically generated

Appending to the readlist and taking the highest counter value and using it to update all the reader nodes so that atomic semantics protocol is satisfied

1. While performing the read making sure that the last read value is reflected in n/2+1 nodes and if not displaying this message

A screenshot of a computer

Description automatically generated

Server output:

A screenshot of a computer

Description automatically generated

1. Fail silent behavior: I have performed this on the writer node 124

Client screen

A screenshot of a computer

Description automatically generated

Server screen:

For the other tokens still, the server is performing normally



1. Performed creation and dropping from client side and made sure that this action is committed only when it is reflected in n/2+1 nodes.

Reader node output:

A screenshot of a computer

Description automatically generated

Writer node output:

A screenshot of a computer

Description automatically generated