Assignment Mark Request for Term 2, 2023

Language:	Python 3

Basic Version	

Limitations/Issues	**Possible Solutions**

1. Similar to dig, there's inconsistent output for the same domain
Eg. For www.koala.com :
DIG'S OUTPUT
 	
My resolver output
 	
2. For some domains with multiple addresses, my implementation sometimes doesn't show all IP addresses. It sometimes even show extra?
   • Websites that have issues: www.youtube.com
   • Websites that work ok: www.stanford.edu
3. My client can work with a public resolver such as @8.8.8.8 but for domains with multiple addresses it sometimes show extra addresses as well…
4. When I want to stop the server, I press ctrl c. It gives an error-
 	
	1. Not sure about this one. Not sure why the regular dig is also providing different results each time. Maybe my implementation is ok…?
	
	2 and 3:
	I suspect there's something wrong with my client. In my client, I request the resolver again every time there is a CNAME in the answer section. Maybe this should be done in the resolver?
	
	However, if the client is to be used on public resolvers, it should find the Ips of CNAMEs in the client to avoid missing any IP addresses.
	
	Tried fixing this multiple times by resolving the CNAMEs in the resolver but it keeps breaking my code 🤢

Enhancement 1:	Error Handling

Limitations/Issues	Possible Solutions
- Both Error and Time-outs should be ok 😊	

Enhancement 2:	
Limitations/Issues	**Possible Solutions**

Enhancement 3:	
Limitations/Issues	**Possible Solutions**