Subnet Calculator CLI

Objectives:

At the end of this episode, I will be able to:

1. Use Python to calculate basic subnet information.

Snippets

main.py

```
from ipaddress import ip_interface
import argparse
def main():
    parser = argparse.ArgumentParser()
   parser.add argument("-a", "--address", help="host address", required=True)
   parser.add_argument("-n", "--netmask", help="Network mask", required=True)
    args = parser.parse_args()
    iface = ip_interface(f"{args.address}/{args.netmask}")
    network = iface.network.network_address
   broadcast = iface.network.broadcast_address
   hostmask = iface.hostmask
   netmask = iface.netmask
   hosts = list(iface.network.hosts())
   minimum_host = min(hosts, default=None)
   maximum host = max(hosts, default=None)
   print(
                   {network}/{netmask}
Network:
Broadcast:
                   {broadcast}
               {minimum_host}
{maximum_host}
Maximum Host:
Hosts per Network: {len(hosts)}
if __name__ == "__main__":
   main()
```

External Resources:

During this episode, you can reference the following external resources for supplementary tools and information:

- (S) argparse Module Documentation
- (S) ipaddress Module Documentation