**Project Ideation**

**I want to do all of these Bot agents in this order to arrive a number 5. 1-4 are sprint loops. I realistically expect to get 1-4 done during this class then continue next semester on number 5.**

1. A Bot agent that explains the steps using FTCC NET-125 process to use a **classful** network address and creates a subnet mask based on required number of hosts or networks to find range of host addresses. This includes all the basic concepts of binary to decimal and powers of 2. This also includes the concept of interval of a network based on power of 2. Uses the Custom Address Matric, a MS Excel spread sheet for each classful network. Provide link to Jack Webb youtube.com video.
2. A Bot agent that explains the steps using FTCC NET-125 process with the Custom Address Matric, a MS Excel spread sheet for each classful network to use a **classful** network address and creates a subnet mask based on required number of hosts or networks to find range of host addresses. Provide link to Jack Webb youtube.com video.
3. A Bot agent that explains the steps using FTCC NET-125 process to use a **classless** network address and creates a subnet mask based on required number of hosts or networks to find range of host addresses. Provide link to Jack Webb youtube.com video.
4. A Bot agent that explains the steps using FTCC NET-125 process with the Custom Address Matric, a MS Excel spread sheet for each classful network to use a **classless** network address and creates a subnet mask based on required number of hosts or networks to find range of host addresses. Provide link to Bodden youtube.com video.
5. questions on CANVAS. This agent combines 1-4 based on the assignment number and question part. This may be accomplished using 1-4 independent agent with a link posted with the questions in CANVAS.

My Plan:

1. (2 weeks) Diagram manual steps to answer each IPv4 subnet question in NET-125.  The goal is to provide the AI the process we teach to subnet since I have seen many different processes to arrive at final answer.  The student needs to use our process so they can answer the intermediate questions to arrive at final answer. This Visio diagram shows 1-5 from the project ideation.
2. (2 week) Collect and create training artifacts and format to use in Claude.ai file posted in NET-125; like Excel chart for Custom Address Map, video of Jack Webb and Bodden teaching steps
3. (6 weeks) LOOP sprints of one week:
4. Create AI prompt for a step to answer a question part in NET-125 subnetting cache the question flow
5. Test answering question in CANVAS NET-125
6. Improve prompt for this sprint and create additional training material