Name Surname:	**CTIS 262 Applied Computer Networks** Fall 2022-2023 **Homework # 1** **(3% of the total contribution)** **Due Date : 23 October 2022 23:55**
BUSE ÇELİK	
Student ID:	
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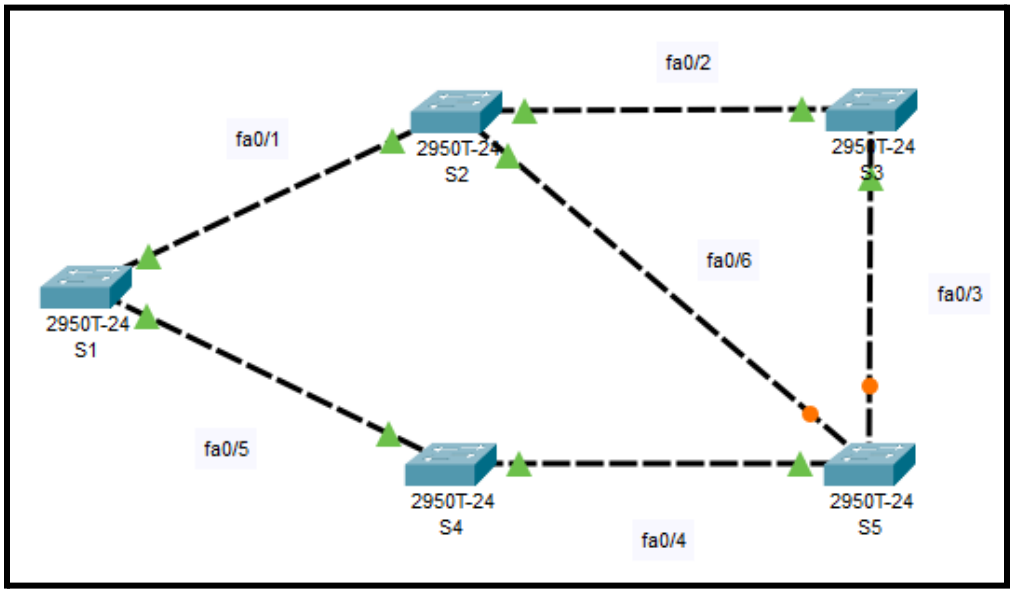
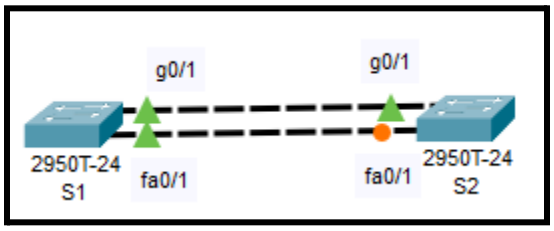
- This homework is about **STP operations**.
- In Homework 1, after you've downloaded a zip file from course's Moodle page and you will find 3 packet tracer files named, Q1.pkt, Q2_1.pkt and Q2_2 .pkt. You are going to use these files in Question 1, Question 2_1, and Question 2_2 respectively. Please review the figures below carefully:

Q1.pkt:



Q2_1.pkt:

Q2_2.pkt:



INSTRUCTIONS:

- Do NOT make any changes in the content (switches) of the file, as the solutions depend on the use of these devices.
- After opening the .pkt files, connect the switches with the appropriate cabling using the given ports (port number and type –fa or gig) as shown in the above figures.
- **Fill in the tables below** according to the Spanning Tree Protocol (STP) after making the connections for EACH SWITCH. Before filling the tables, make sure that STP is in the stable state.
- Please write interface names for root ports, designated ports and alternate ports. If you are not found any designated, root or alternate ports on a switch, then fill that missing port type with the text "none".

UPLOAD:

- After you have completed Homework1, please save it as pdf with your name and surname such as "Berk_OnderHW1.pdf". Also, please upload the .pkt files in the same file with your pdf. Zip all files with your name and surname such as "Berk_OnderHW1.zip" and upload the zip file to assignment tab of the course's Moodle page. Please do NOT use any Turkish characters while renaming the files.

Question 1

Root Bridge: SWITCH 1

Switch 1	
Root Ports	None
Designated Ports	Fa0/1-Fa0/5
Alternate Ports	None
Switch 2	
Root Ports	Fa0/1
Designated Ports	Fa0/2-Fa0/6
Alternate Ports	None
Switch 3	
Root Ports	Fa0/2
Designated Ports	Fa0/3
Alternate Ports	None
Switch 4	

Root Ports	Fa0/5
Designated Ports	Fa0/4
Alternate Ports	None
Switch 5	
Root Ports	Fa0/4
Designated Ports	None
Alternate Ports	Fa0/3-Fa0/6

Question 2_1

Root Bridge: SWITCH 2

Switch 1	
Root Ports	Fa0/1
Designated Ports	None
Alternate Ports	Fa0/2
Switch 2	
Root Ports	None
Designated Ports	Fa0/2-Fa0/1
Alternate Ports	None

Question 2_2

Root Bridge: SWITCH 1

Switch 1	
Root Ports	None
Designated Ports	G0/1-Fa0/1
Alternate Ports	None
Switch 2	
Root Ports	G0/1
Designated Ports	None
Alternate Ports	Fa0/1