The University of Jordan, Comp. Eng. Dept.
Spring 2023: Networks lab: Experiment 3
IP Addressing: Version 6
(Prelab Report)

Student Name:	Section #:

In this report, you are required to fill the addressing table for problem 1 after performing the subnetting for routers' interfaces and PCs based on what you've learned about IPv6 subnetting and the IPv6 prefix provided.

- Your ISP has given you the **IPv6 prefix 2000:ABDF:9C2:5000/52** to use in building the network of the University of Jordan. Tip: The subnets' numbers should start from 1. Consider the scenario, as shown in Figure 1 (a) and (b) in the problem sheet, which helps you practice configuring IPv6 subnetting on routers and PCs.

Table 1. Required IPv6 configuration after performing subnetting.

Device	Interface	IPv6 Address	Prefix length	Link-local	Default Gateway	Connected with
University of Jordan	S0/0/0(DCE)			FE80::1	--	School of Science
	S0/0/1(DCE)			FE80::1	--	School of Engineering
	S0/1/0(DCE)			FE80::1	--	School of Business
	S0/1/1(DCE)			FE80::1	--	School of Law
School of Science	S0/0/0			FE80::2	--	University of Jordan
	G0/0			FE80::2	--	PC0
	G0/1			FE80::2	--	PC1
School of Engineering	S0/0/0			FE80::3	--	University of Jordan
	S0/0/1			FE80::3	--	Computer Department
	G0/0			FE80::3	--	PC4
	G0/1			FE80::3	--	PC5
School of Business	S0/0/0			FE80::4	--	University of Jordan
	G0/0			FE80::4	--	PC6
	G0/1			FE80::4	--	PC7
School of Law	S0/0/0			FE80::5	--	University of Jordan
	G0/0			FE80::5	--	PC8
	G0/1			FE80::5	--	PC9
Computer Department	S0/0/0			FE80::6	--	School of Engineering
	G0/0			FE80::6	--	PC2
	G0/1			FE80::6	--	PC3
PC0	Fa0			--	FE80::2	Science G0/0
PC1	Fa0			--	FE80::2	Science G0/1
PC2	Fa0			--	FE80::6	Computer G0/0
PC3	Fa0			--	FE80::6	Computer G0/1
PC4	Fa0			--	FE80::3	Engineering G0/0
PC5	Fa0			--	FE80::3	Engineering G0/1
PC6	Fa0			--	FE80::4	Business G0/0
PC7	Fa0			--	FE80::4	Business G0/1
PC8	Fa0			--	FE80::5	Law G0/0
PC9	Fa0			--	FE80::5	Law G0/1