Exercise 2 :

Frame 1 :	Frame 2 :
Dst MAC - 08:00 :27 :B0 :95 :F2	SRC MAC – 08 :00 :27 :4B :35 :58
SRC MAC – 08 :00 :27 :4B :35 :58	Dst MAC - 08:00 :27 :B0 :95 :F2
TYPE – 0800 THE UPPER LAYER IS **IP**	TYPE – 0800 THE UPPER LAYER IS **IP**
VERSION + IHL : 45	VERSION + IHL : 45
ToS - 00	ToS - 00
TOTAL LENGHT - 00 3C	TOTAL LENGHT - 00 3C
IDENTIFICATION – F2 00	IDENTIFICATION – 00 00
FALG + OFFSET - 40 00	FALG + OFFSET - 40 00
TTL - 40	TTL - 40
PROTOCOL - 06 UPPER LAYER IS TCP	PROTOCOL - 06 UPPER LAYER IS TCP
CHECKSUM - C4 3B	CHECKSUM - B6 3C
Source IP – C0.A8.01.FB => 192.168.1.251	Dst IP – C0.A8.01.34 => 192.168.1.52
Dst IP – C0.A8.01.34 => 192.168.1.52	Source IP – C0.A8.01.FB => 192.168.1.251
TCP Source Port – AA 18 => 43544	TCP dst Port - 00 16 => 22
TCP dst Port - 00 16 => 22 it' a SSH Protocol	TCP Source Port – AA 18 => 43544
Sequence Number – **D541F131** => 3577868593	Sequence Number – D2 63 5E 14
Acknowledgement Number – 00 00 00 00	Acknowledgement Number – **D5 41 F1 32**
Header Length – A0	
Flags – 02 => the SYN bit is set to 1 binary ***Flags structure :*** ***URG ACK PSH RST SYN FIN*** ***2^5 2^4 2^3 2^2 2^1 2^0 → binary combi*** ***0 0 0 0 1 0 -> SYN bit set to 1*** The Frame 1 is a Request message to establish communication	Flags - 12 => SYN + ACK ***Flags structure :*** ***URG ACK PSH RST SYN FIN*** ***2^5 2^4 2^3 2^2 2^1 2^0 → binary combi*** ***0 1 0 0 1 0 -> SYN=1, ACK=1*** It's the ACKnowledgement message
Window Size – FA F0 => 64240	Window Size – FE 88 => 65 160
Checksum – DE 9C	Checksum – 84 AE