Assignment 1.2

39. Let K be the statement, "Kevin is chatting"
Let H be the statement, "Heather is chatting."
Let R be the statement, "Randy is cheating."
Let V be the " , "Vijay is chatting"
Let A " " " , "Abby is chatting".

Suppose,

1st statement is $S_1 = K \vee H$
2nd " " $S_2 = R \oplus V$
3rd " " $S_3 = A \rightarrow R$
4th " " $S_4 = V \leftrightarrow K$
5th " " $S_5 = H \rightarrow (A \wedge K)$

To get a conclusion C: $C = S_1 \wedge S_2 \wedge S_3 \wedge S_4 \wedge S_5$

K	H	V	R	A	S_1	S_2	S_3	S_4	S_5	C
T	T	T	T	T	T	F	T	T	T	F
T	T	T	T	F	T	F	T	T	F	F
T	T	T	F	T	T	T	F	T	T	F
T	T	T	F	F	T	T	T	T	F	F
T	T	F	T	T	T	T	T	F	T	F
T	T	F	T	F	T	T	F	F	F	F
T	T	F	F	T	T	F	F	F	T	F
T	T	F	F	F	T	F	T	F	F	F
T	F	T	T	T	T	F	T	T	T	F
T	F	T	T	F	T	F	T	T	T	F
T	F	T	F	T	T	T	F	T	T	F
T	F	T	F	F	T	T	T	T	T	T
T	F	F	T	T	T	T	T	F	T	F

K	H	V	R	A	S_1	S_2	S_3	S_4	S_5	C
T	F	F	T	F	T	T	T	F	T	F
T	F	F	F	T	T	F	F	F	T	F
T	F	F	F	F	T	F	T	F	T	F
F	T	T	T	T	T	F	T	F	F	F
F	T	T	T	F	T	F	T	F	F	F
F	T	T	F	T	T	T	F	F	F	F
F	T	T	F	F	T	T	T	F	F	F
F	T	F	T	T	T	T	T	T	F	F
F	T	F	T	F	T	T	T	T	F	F
F	T	F	F	T	T	F	F	T	F	F
F	T	F	F	F	T	F	T	T	F	F
F	F	T	T	T	F	F	T	F	T	F
F	F	T	T	F	F	F	T	F	T	F
F	F	T	F	T	F	T	F	F	T	F
F	F	T	F	F	F	T	T	F	T	F
F	F	F	T	T	F	T	T	T	T	F
F	F	F	T	F	F	T	T	T	T	F
F	F	F	F	T	F	F	F	T	T	F
F	F	F	F	F	F	F	T	T	T	F

So, Kevin and Vijay are chatting