CSE-103

STUDENT ID :1705116

VARIFYING STUDENT ID :1705034

CHAPTER:1

SECTION:2

EXERCISE NO.16

|  |  |
| --- | --- |
| ANSWER | EXPLANATION |
| 1. The question “Are you a liar?” does not   Work. | If you ask the Truth Teller “Are you a liar?”  The truth teller will say “No”.  Because he is telling the truth. He is not a liar.  And if you ask the liar ,”Are you a liar?”  The liar will also say,”No”.  Because he is lying .He is a liar .  **Logic: I**f they both say no,you can not tell who is  Lying and who is telling the truth. |
| 1. Are you a cannibal? | “Are you a cannibal?” works because the truth teller will tell you “Yes” because he is telling the truth,he is a cannibal.  And the liar will tell you “No”.But you know they are all cannibal.So you know he is lying. |