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SECTION: S2

ASSIGNMENT # 3

SUBMITTED TO: SIR SAMIR OBAID

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ATM (AUTOMATIC TELLER MACHINE)

BRIEF DESCRIPTION

Basically, it is an electronic device that is used by the Bank for transection purpose. The user insert there plastic card which is encoded with the user information on a magnatic strip. The strip contains an identification code that is transmitted to the bank's central computer by modem. The user insert the plastic card to access the account to access the services provided by the Bank. There were problems like when the banks were closed at night or you have to write a check before you withdraw your money. Suppose you are facing some problem and you need money urgent and the banks are closed what to do know. To overcome this situation ATM were introduced, they were invented by the Shepherd-Barron in 1960. Now even if banks are closed or its late night everyone can access their money.

The ATM basically, provides many services to the user.

Following are some listed below:

1. Transection of money any time you want.

2. Transfer of money from your account to another.

For the transection of money one only need to insert card enter pin and then enter the amount he wants. It should be noted that there is a limit of how much money one can withdraw from the account. Because ATM is not for the transection of heavy money but for simple scenarios, and also there must be at least Rs.500 present in the account. If someone thinks that he can withdraw all the money or the amount that is not sufficient in the account he cannot.

Transfer money is another service that ATM provides like you want to send someone money very urgently ATM can help you, no need to worry. To transfer money first you will enter the account number where you want to send money to, the system will verify the account number that weather it exists or not, you will also enter the amount it will also check that weather the entered amount is not less than the current balance and also there must always be Rs.500 present in the account. Then in the last you also have to provide your PIN for verification or say security purpose.

CAUSE EFFECT GRAPHING

FUNCTION 1:

CAUSE	EFFECT
C1: Card Insertion	E1: Login successful
C2: Enter PIN	E2: Login not successful

CAUSE EFFECT GRAPH:
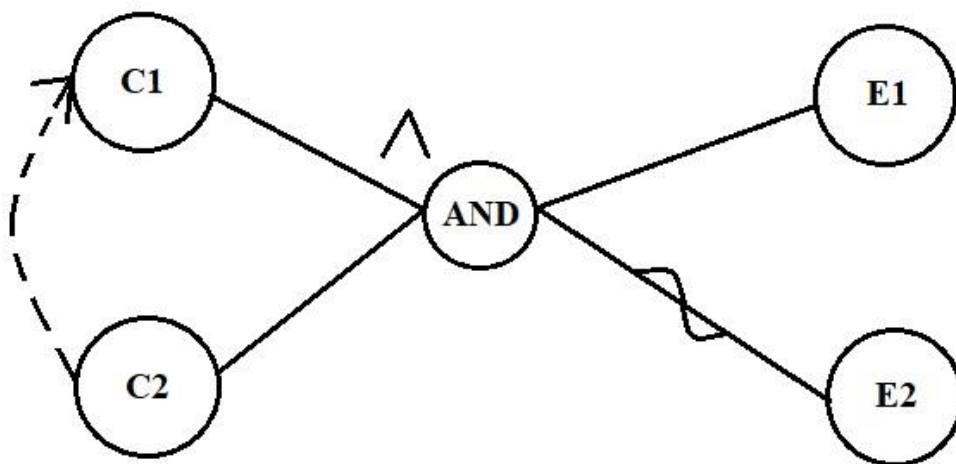
DECISION TABLE:

ACTION	T1	T2	T3	T4
C1	0	1	0	1
C2	0	0	1	1
E1	0	0	0	1
E2	1	1	1	0

Test Cases 1

Test case #		Expected Output (Effects)
	Pin	
T1	1111	Invalid Range
T2	2222	Invalid Range
T3	3333	Invalid Range
T4	4444	Valid

FUNCTION 2:

CAUSE	EFFECT
C3: Enter amount < Current balance	E3: Transection successful
C4: Current balance > 500	E4: Transection not successful

CAUSE EFFECT GRAPH:
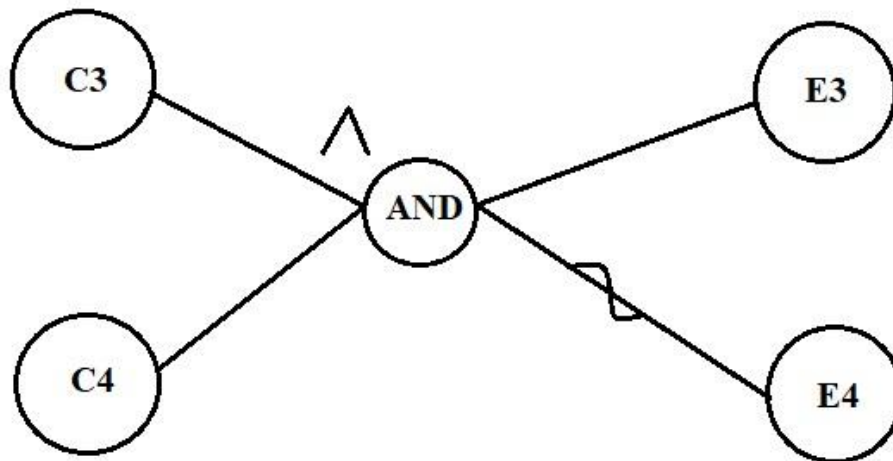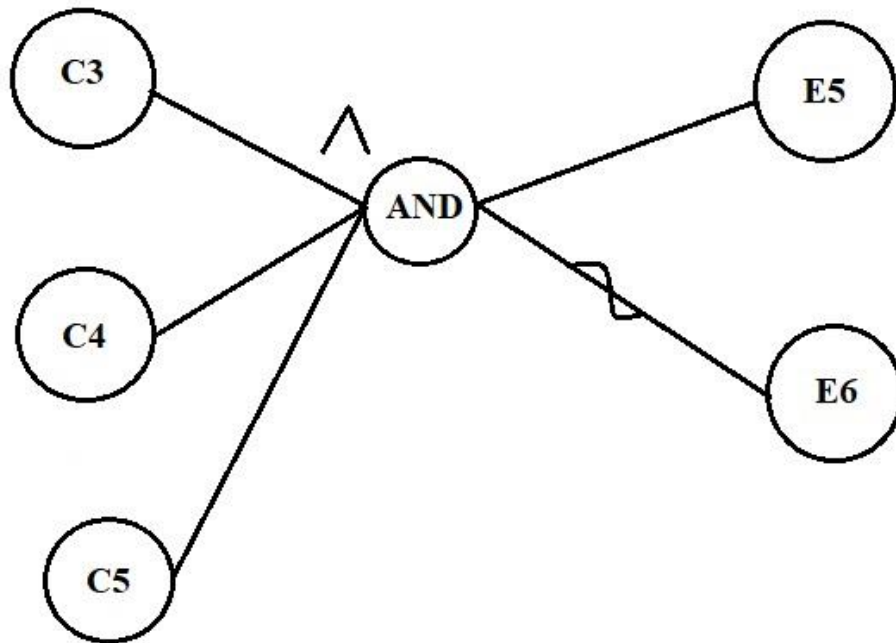
DECISION TABLE:

ACTION	T1	T2	T3	T4
C1	0	1	0	1
C2	0	0	1	1
E1	0	0	0	1
E2	1	1	1	0

Test Cases 2:

Test case #			Expected Output (Effects)
	Amount	**Tempbal**	
T1	16000	400	Invalid Range
T2	10000	400	Invalid Range
T3	16000	15000	Invalid Range
T4	10000	15000	Valid

FUNCTION 3:

CAUSE	EFFECT
C3: Enter amount < Current balance	E5: Money transfer successful
C4: Current balance > 500	E6: Money transfer not successful
C5: Account number valid (where you will transfer money)	

CAUSE EFFECT GRAPH:

DECISION TABLE:

ACTION	T1	T2	T3	T4	T5	T6	T7	T8
C3	0	1	0	0	1	0	1	1
C4	0	0	1	0	1	1	0	1
C5	0	0	0	1	0	1	1	1
E5	0	0	0	0	0	0	0	1
E6	1	1	1	1	1	1	1	0

Test Cases 3:

Test case #	Input (Causes)			Expected Output (Effects)
	Amount	Tempbal	Acccountnum	
T1	16000	400	1000	Invalid Range
T2	1000	3000	1000	Invalid Range
T3	20000	15000	1000	Invalid Range

T4	18000	200	1234	Invalid Range
T5	5000	15000	2000	Invalid Range
T6	30000	15000	1234	Invalid Range
T7	10000	400	1234	Invalid Range
T8	10000	15000	1234	Valid Range