SOFTWARE ENGINEERING

CSE-2nd year

ASSIGNMENT-2

Decision Tree and Decision Table

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Problem 1: Decision Tree and Decision Table for ATM SYSTEM.

Problem 2: Decision Tree and Decision Table for Chemical Plant.

PROBLEM 1

A screenshot of a cell phone

Description automatically generated

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Conditions** |  |  |  |  |
| Request Cash withdrawal Amount | NO | YES | YES | YES |
| Amount<=Balance | - | YES | NO | NO |
| Credit granted | - | NO | YES | NO |
| **Actions** |  |  |  |  |
| Error | X |  |  |  |
| Money withdrawn |  | X | X |  |
| Money not withdrawn |  |  |  | X |

Decision Table For ATM system.

PROBLEM 2-

A screenshot of a cell phone

Description automatically generated

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Conditions** |  |  |  |  |  |  |
| Emergency in plant | NO | YES | YES | YES | YES | YES |
| Tank temp.>T1 | - | YES | NO | NO | NO | YES |
| Tank temp. <T2 | - | NO | YES | NO | NO | NO |
| Tank pressure >P1 | - | NO | NO | YES | NO | NO |
| Chemical conc. Of tank >M | - | NO | NO | NO | YES | NO |
| Tank temp. >T3 | - | NO | NO | NO | YES | NO |
| Tank pressure >P3 | - | NO | NO | NO | NO | YES |
| **Actions** |  |  |  |  |  |  |
| No action required | X |  |  |  |  |  |
| Turn ON water shower |  | X |  |  | X | X |
| Turn OFF heater |  | X |  |  |  |  |
| Turn ON heater |  |  | X |  |  |  |
| Turn OFF water shower |  |  | X |  |  |  |
| Open Valve V1 |  |  |  | X |  | X |
| Open Valve V2 |  |  |  |  |  | X |
| Alarm bell sound |  |  |  |  |  | X |
|  |  |  |  |  |  |  |

Decision Table for Chemical Plant Problem