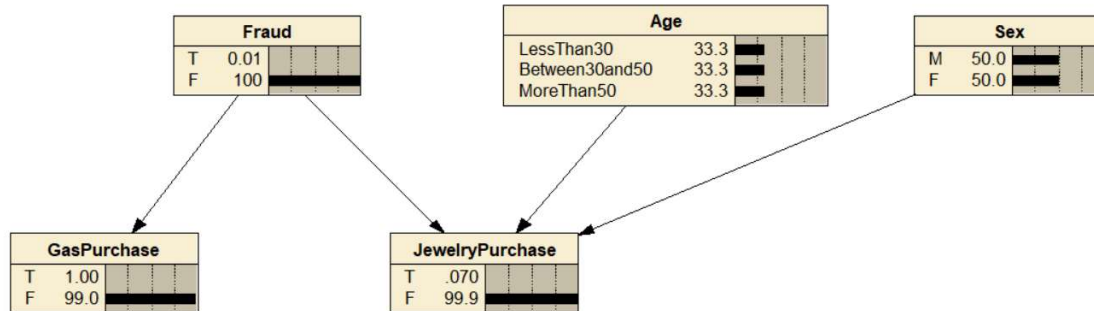## Additional Requirements (6 points)

1. The name of your source code file should be `mp4.pdf`
2. Your answers, including the Bayesian Network image need to be clearly legible and well organized.
3. Make sure the Bayesian Network itself is organized from causes (on top) to effects (on bottom).
4. At the top of the document, write the following information: your name, date, course name, semester, and assignment name.

A) (3 points)

B) (3 points)

MAX: {GAS=YES; JEWELRY=YES; AGE=Under30; SEX=Male} -> 50%
MIN: {GAS=NO; JEWELRY=NO} -> 0.008 %

C) (3 points)

$P(Fraud \mid gasPurchase, jewelryPurchase) =< 12.5, 87.5 > \%$
$P(Fraud \mid gasPurchase, \neg jewelryPurchase) =< 0.19, 99.8 > \%$
$P(Fraud \mid \neg gasPurchase, jewelryPurchase) =< 0.57, 99.4 > \%$
$P(Fraud \mid \neg gasPurchase, \neg jewelryPurchase) =< 0.008, 0.992 > \%$