

## Test Results

```
C:\Program Files\Java\jdk1.7.0_01\bin>javac BayesNetLoad.java
```

```
C:\Program Files\Java\jdk1.7.0_01\bin>java BayesNetLoad
```

```
***** Printing Graph *****
```

```
grass_wet(S) -> []
```

```
grass_wet(P) -> [rain, sprinkler]
```

```
rain(S) -> [grass_wet, sprinkler]
```

```
rain(P) -> []
```

```
sprinkler(S) -> [grass_wet]
```

```
sprinkler(P) -> [rain]
```

```
*****
```

```
***** Printing Probability Tables *****
```

```
grass_wet -> {{sprinkler=false, rain=false}=0.0, {sprinkler=true, rain=false}=0.9, {sprinkler=true, rain=true}=0.99, {sprinkler=false, rain=true}=0.8}
```

```
rain -> {{}}=0.2}
```

```
sprinkler -> {{rain=true}=0.01, {rain=false}=0.4}
```

```
*****
```

```
***** Take I/P from User *****
```

```
Enter node:
```

```
Enter cond:
```

```
*****
```

```
Invalid i/p in node. Exiting ...
```

```
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```
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```

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```
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rain(S) -> [grass_wet, sprinkler]
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```
rain(P) -> []
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```
sprinkler(S) -> [grass_wet]
```

```
sprinkler(P) -> [rain]
```

```
*****
```

```
***** Printing Probability Tables *****
```

```
grass_wet -> {{sprinkler=false, rain=false}=0.0, {sprinkler=true, rain=false}=0.9, {sprinkler=true, rain=true}=0.99, {sprinkler=false, rain=true}=0.8}
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```

```
sprinkler -> {{rain=true}=0.01, {rain=false}=0.4}
```

```
*****
```

\*\*\*\*\* Take I/P from User \*\*\*\*\*

Enter node:

grass\_wet

Enter cond:

rain,~sprinkler

\*\*\*\*\*

$P(\text{grass\_wet} | \text{rain}, \sim \text{sprinkler}) = 0.8000001$

C:\Program Files\Java\jdk1.7.0\_01\bin>java BayesNetLoad

\*\*\*\*\* Printing Graph \*\*\*\*\*

grass\_wet(S) -> []

grass\_wet(P) -> [rain, sprinkler]

rain(S) -> [grass\_wet, sprinkler]

rain(P) -> []

sprinkler(S) -> [grass\_wet]

sprinkler(P) -> [rain]

\*\*\*\*\*

\*\*\*\*\* Printing Probability Tables \*\*\*\*\*

grass\_wet -> {{sprinkler=false, rain=false}=0.0, {sprinkler=true, rain=false}=0.9, {sprinkler=true, rain=true}=0.99, {sprinkler=false, rain=true}=0.8}

rain -> {{}}=0.2}

sprinkler -> {{rain=true}=0.01, {rain=false}=0.4}

\*\*\*\*\*

\*\*\*\*\* Take I/P from User \*\*\*\*\*

Enter node:

grass\_wet

Enter cond:

\*\*\*\*\*

$P(\text{grass\_wet} | ) = 0.44838$