25/5/21

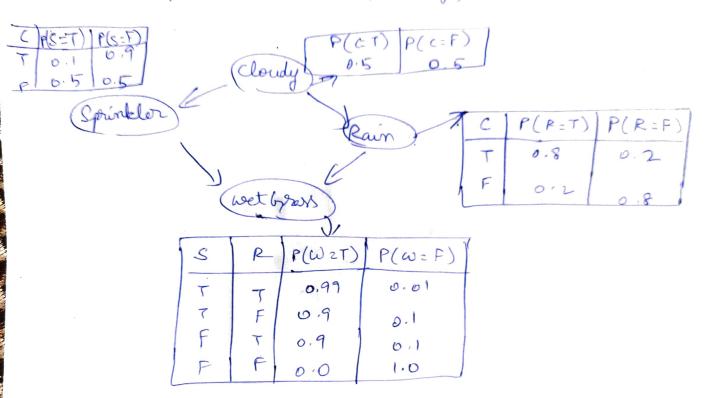
Chandam A.M. 1BM18cS025

6-A, CSE

ML Lab Test -1

Page D Class

Q. Griven the following Bayesian Network
Find P(Sprinkler, wet Gross / Cloudy)



## CODE :

25/5/21

ML lab Test -1

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Page (D) Clas

```
Rain = Conditional Probability ([ ["Yes", "Ves.", 0.8]],

["No", "Yes", 0.2],

["No", "No", 0.2],

["No", "No", 0.8]],
```

CONTROL MATERIAL TORK OF A

25/5/21

ML Test - 1.

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Schooly = Node (cloudy, name = "Cloudy")

SRain = Node (Rain, name = "Rain")

sprinkles = Node (Sprinkles, name = "Sprinkles")

slottfront telethe = Node (wethyras, name = "boothrass")

model = Bay Estan Network ("weather and (shars")

model · add - nodes (sloudy, skain, sprinkles, swethers)

model · add - edge (scloudy, ssprinkles)

model · add - edge (sloudy, skain)

model · add - edge (sprinkles, swethers)

model · add - edge (sprinkles, swethers)

model · add - edge (sRain, swethers)

model · bake()

are = np. avay (s"an", "wet", "ses") of ndmin = 2)

are = np. e \*\* model · log · probability (are)

print (ans)