CAP446 Online Assignment 3

MM: 30   **Last date: 06.12.2021**

Instructions:

1. *Handwritten solutions will be accepted*
2. *Upload in PDF format only*
3. *Copied/ Wrong uploads will not be considered*
4. *Uploads done only on UMS will be evaluated*
5. *Late submissions will not be considered*

1. Consider the given data set and perform Naïve Bayesian Classification. Mention each step and calculation clearly.
   (Outlook= Sunny, Temperature= Cool , Humidity= High, Wind= Strong)   [20]

Row No.	Play	Outlook	Temperature	Humidity	Wind
1	no	sunny	85	85	false
2	no	sunny	80	90	true
3	yes	overcast	83	78	false
4	yes	rain	70	96	false
5	yes	rain	68	80	false
6	no	rain	65	70	true
7	yes	overcast	64	65	true
8	no	sunny	72	95	false
9	yes	sunny	69	70	false
10	yes	rain	75	80	false
11	yes	sunny	75	70	true
12	yes	overcast	72	90	true
13	yes	overcast	81	75	false
14	no	rain	71	80	true

2. Briefly explain Decision trees and its terminologies by taking an example.   [10]