

Using the recording of **Lecture A, Video 2 and 3** solve the following question on paper (not excel). Take a picture of your solution and submit.

- a) The data set given below specifies when you will or will not go to Disney park. Use this data to fit a decision tree using ID3 algorithm.

Outlook	Temperature	Humidity	Extra cash	Go to Disney Park
Rainy	H	H	No	No
Rainy	H	H	Yes	No
Rainy	Mild	H	No	No
Rainy	C	Normal	No	Yes
Rainy	Mild	Normal	Yes	Yes
Overcast	H	H	No	Yes
Overcast	C	Normal	Yes	Yes
Overcast	Mild	H	Yes	Yes
Overcast	H	Normal	No	Yes
Sunny	Mild	H	No	Yes
Sunny	C	Normal	No	Yes
Sunny	C	Normal	yes	No

- b) In each of the following cases, decide if you will go to the Disney park or not?

i) Sunny, Mild, Normal and No cash: _____

ii) Sunny, Mild, H and have cash: _____ -