

1. Academic Standing Notifications

Write the function `student_advisory` that takes as input a student's grade and using a set of if statements, prints a message for the student.

- If a student is earning above an 80, they are in good standing and nothing needs to be done.
- If they are earning between 60-80, they're struggling and should get a note to attend office hours.
- If they are below 60, they are failing and should get a notification to schedule a one-on-one with the professor.

2. Leap Year?

Write the function `is_leap_year` that takes as input a year and returns whether or not it's a leap year. Here are the rules for leap years.

- Divisible by 4 but not divisible by 100.
- OR divisible by 400.

3. Blackjack Advisor

Write the function `blackjack_advisor` that takes three inputs, each of your cards (2-10, J, Q, K, A) and the dealer's show card, and prints a statement with which move you should make between 'hit', 'stand', 'double down', or 'split'.

In blackjack, you are dealt two cards face up; the dealer deals themself two cards, but only one is face up. The dealer plays according to a set of rules based on the sum of the cards they have. Your goal is to get closer to 21 than the dealer without going over.

To the right is the table for optimal strategy, how you should play depending on your cards and the dealer's show card.

Dealer's Up Card											
	2	3	4	5	6	7	8	9	10	A	
17+	S	S	S	S	S	S	S	S	S	S	
16	S	S	S	S	S	H	H	H	H	H	
15	S	S	S	S	S	H	H	H	H	H	
14	S	S	S	S	S	H	H	H	H	H	
13	S	S	S	S	S	H	H	H	H	H	
12	H	H	S	S	S	H	H	H	H	H	
11	D	D	D	D	D	D	D	D	D	H	
10	D	D	D	D	D	D	D	D	H	H	
9	H	D	D	D	D	H	H	H	H	H	
5-8	H	H	H	H	H	H	H	H	H	H	
A 8-10	S	S	S	S	S	S	S	S	S	S	
A, 7	S	D	D	D	D	S	S	H	H	H	
A, 6	H	D	D	D	D	H	H	H	H	H	
A, 5	H	H	D	D	D	H	H	H	H	H	
A, 4	H	H	D	D	D	H	H	H	H	H	
A, 3	H	H	H	D	D	H	H	H	H	H	
A, 2	H	H	H	D	D	H	H	H	H	H	
A, A 8, 8	SP										
10, 10	S	S	S	S	S	S	S	S	S	S	
9, 9	SP	SP	SP	SP	SP	S	SP	SP	S	S	
7, 7	SP	SP	SP	SP	SP	SP	H	H	H	H	
6, 6	SP	SP	SP	SP	SP	H	H	H	H	H	
5, 5	D	D	D	D	D	D	D	D	H	H	
4, 4	H	H	H	SP	SP	H	H	H	H	H	
3, 3	SP	SP	SP	SP	SP	SP	H	H	H	H	
2, 2	SP	SP	SP	SP	SP	SP	H	H	H	H	
	2	3	4	5	6	7	8	9	10	A	

KEY	H	HIT
	S	STAND
	D	DOUBLE DOWN
	SP	SPLIT