

Test cases for “HealthStatus”

Case 1: Healthy person with valid vaccination card

Input:

- isHealth = True
- hasValidVaccinationCard = True

Expected condition:

The method recommendActivity evaluates the weather and space conditions.

Expected result:

A suggestion is generated depending on the weather and space constraints.

Case 2: Healthy person without valid vaccination card

Input:

- isHealth = True
- hasValidVaccinationCard = False

Expected condition:

The method recommendActivity should return “No activity recommended”.

Expected result:

No suggestion is generated due to the vaccination card is not valid.

Case 3: Unhealthy person with valid vaccination card

Input:

- isHealth = False
- hasValidVaccinationCard = True

Expected condition:

The method recommendActivity should return “No activity recommended”.

Expected result:

Weather and space conditions are not evaluated

Case 4: Unhealthy person without valid vaccination card

Input:

- isHealth = False
- hasValidVaccinationCard = False

Expected condition:

The method recommendActivity should return “No activity recommended”.

Expected result:

No suggestion is generated.

Case	isHealthy	hasValidVaccinationCard	Expected Result
1	True	True	Evaluate weather and space
2	True	False	“No activity recommended”
3	False	True	“No activity recommended”
4	False	False	“No activity recommended”

Test cases for “SpaceConstraint”

Case 1: Current capacity is lower than maximum

Input:

- currentCapacity = 5
- maxCapacity = 10

Expected condition:

currentCapacity < maxCapacity.

Expected result:

The method isWithingCapacity returns “true”.

Case 2: Current capacity is equal to the maximum.

Input:

- currentCapacity = 10
- maxCapacity = 10

Expected condition:

currentCapacity == maxCapacity.

Expected result:

The method isWithingCapacity returns “false”.

Case 3: Current capacity is bigger than maximum

Input:

- currentCapacity = 15
- maxCapacity = 10

Expected condition:

currentCapacity > maxCapacity.

Expected result:

The method isWithingCapacity returns “false”.

Case	Condition	Expected Result
1	currentCapacity < maxCapacity.	True
2	currentCapacity == maxCapacity.	False
3	currentCapacit > maxCapacity.	False

Test cases for “Activity recommendation”

Case	Weather (temp, humidity, precipitation, cloudy)	HealthStatus (Health, vaccinated)	SpaceConstraint (current, max)	Expected result
1	-5, 10, true, true	True, true	Current < max	“Stay Home”
2	-5, 10, false, false	True, true	Current < max	“Go skiing”
3	-5, 10, false, false	True, true	Current == max	“No specific recommendtion”
4	10, 50, false, false	True true	Current < max	“Go Hiking”
5	10, 50, false, false	True true	Current == max	“No specific recommendtion”
6	22, 65, false, false	True true	Current < max	“Outdoor tourism”
7	32, 40, false, false	True true	Current < max	“Go for drinks”
8	32, 40, false, false	True true	Current == max	“Go for drinks”
9	35, 40, false, false	True true	Current < max	“Go for drinks”
10	40, 80, true, true	True true	Current < max	“No specific recommendtion”
11	32, 40, false, false	False, true	Current < max	“No activity recommended”
12	32, 40, false, false	True, false	Current < max	“No activity recommended”
13	22, 65, false, false	True, true	Current == max	“No specific recommendtion”
14	22, 59, false, false	True, true	Current < max	“No specific recommendtion”