

Lab Task 3

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Question 1 Answer:

Input Domain

- valid number of tickets: 1 to 5 (inclusive).
- Invalid number of tickets: Less than 1 or greater than 5, or non-numeric input.

Equivalence Partitions

Partition Type	Description	Example Test Case
Valid	Number of tickets between 1 and 5	3
Invalid	Less than 1 ticket	0
Invalid	More than 5 tickets	6
Invalid	Non-numeric input	"three"

Test Cases

1. Valid input: 3 - Expected: Booking successful
2. Invalid (less than 1): 0 - Expected: Error "Minimum 1 ticket required"
3. Invalid (more than 5): 6 - Expected: Error "Maximum 5 tickets allowed"
4. Invalid (non-numeric): "three" - Expected: Error "Invalid input – enter a number"

Question 2 Answer:

Input Domain

- Valid mobile numbers: Exactly 10 digits, starting with 7, 8, or 9.
- Invalid mobile numbers: Less than or more than 10 digits, not starting with 7/8/9, or containing non-numeric characters.

Equivalence Partitions

Partition Type	Description	Example Test Case
Valid	10 digits, starts with 7, 8, or 9	9876543210
Invalid	Less than 10 digits	987654321
Invalid	More than 10 digits	98765432109
Invalid	Does not start with 7, 8, or 9	6876543210
Invalid	Contains non-numeric characters	98A6543210

Test Cases

1. Valid input: 9876543210 - Expected: Mobile number accepted
2. Invalid (less than 10 digits): 987654321 - Expected: Error "Mobile number must be 10 digits"
3. Invalid (more than 10 digits): 98765432109 - Expected: Error "Mobile number must be 10 digits"
4. Invalid (does not start with 7/8/9): 6876543210 - Expected: Error "Number must start with 7, 8, or 9"
5. Invalid (non-numeric): 98A6543210 - Expected: Error "Invalid characters in mobile number"