**COMSATS UNIVERSITY ISLAMABAD LAHORE CAMPUS**

**Activity**

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**Q.1:**

**Breaking down the trip planning process (Decomposition)**

Break the trip into smaller tasks:

1. Decide destination → Murree
2. Fix dates (weekend)
3. Budget planning
4. Transportation arrangements (bus/car)
5. Hotel/guest house booking
6. Make itinerary (places to visit, activities)
7. Pack essentials (clothes, medicines, ID, money)
8. Safety & emergency checklist

**Q.2:**

**Pattern Recognition (from past travel experiences)**

* Always need **budgeting** and **transportation**.
* **Accommodation** must be booked in advance to avoid issues.
* Trips are more successful with **pre-planned itineraries**.
* Unexpected weather/traffic delays are common → need backup plan.

**Q.3:**

**Essential elements to consider (Abstraction)**

Focus only on key points, ignore unnecessary details:

* Budget
* Travel mode (bus/car)
* Accommodation
* Food & water
* Sightseeing & activities
* Safety & health precautions

**Q.4:**

**Step-by-step plan (Algorithm Design)**

1. Select dates and confirm group members.
2. Set budget for transport, hotel, food, and activities.
3. Book transport (bus tickets / arrange car).
4. Reserve hotel/guest house in Murree.
5. Create itinerary (Mall Road, Patriata, Pindi Point, Kashmir Point).
6. Pack necessary items (clothes, shoes, cash, medicines).
7. Start journey on weekend → follow plan.
8. Return home safely.