**COMSATS UNIVERSITY ISLAMABAD LAHORE CAMPUS**

**Task no 2**

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FA24-BBA-075

**Q.1: Decomposition (Breaking Trip into Manageable Steps)**

**Murree trip can be divided into smaller actions:**

1. Fix travel schedule (decide dates & number of days)
2. Decide transport (personal car, rented vehicle, bus, tickets, fuel)
3. Book place to stay (hotel, guest house, resort)
4. Plan attractions (Mall Road walk, Patriata chairlift, Kashmir Point, food places)
5. Prepare important things (clothes, medicines, wallet, ID card)
6. Calculate expected expenses (travel, stay, meals, shopping, emergency fund)

**Flowchart:**

Start → Fix Schedule → Decide Transport → Book Stay → Plan Attractions → Prepare Items → Calculate Expenses → End

**Q.2: Pattern Recognition (Similarities from Past Journeys)**

**Common observations from earlier travels:**

* Budget estimation is always needed
* Transport and accommodation are the first concerns
* Essentials packing repeats every trip
* Eating local food & sightseeing are common habits
* Starting on time helps avoid unnecessary delay

**Flowchart:**

Start → Recall Past Journeys → Highlight Repeated Steps (Budget, Transport, Stay, Packing, Food) → Apply in New Trip → End

**Q.3: Abstraction (Only the Core Factors of Planning)**

**Ignore less important things and focus on basics:**

* When? (dates & time period)
* How to travel? (bus, car, train)
* Where to live? (hotel, guest house)
* What to do? (visiting places, shopping, exploring)
* Budget? (total spending limit)
* Must-carry items? (clothes, medicines, CNIC, money)

**Flowchart:**

Start → Decide Dates → Select Transport → Book Living Place → Plan Activities → Finalize Budget → End

**Q.4: Algorithm Design (Step-by-Step Journey Plan)**

1. Decide exact dates of trip
2. Confirm travel arrangement (bus ticket / car booking)
3. Reserve accommodation in advance
4. List places & activities (Patriata, Kashmir Point, Mall Road, local food)
5. Gather & pack essentials (clothes, medicines, documents)
6. Allocate budget for trip (travel, stay, food, shopping, backup money)
7. Start journey according to time plan
8. Follow schedule & enjoy the trip

**Flowchart:**

Start → Decide Dates → Confirm Transport → Reserve Accommodation → List Activities → Pack Essentials → Allocate Budget → Start Journey → End