**Assignment Number 1**

**9th September, 2025**

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Q1:  
we will begin by decomposing the bigger complex problem into smaller and more manageable sub problems. This can be done by:

Handling dates and logistics:

* Checking the weather beforehand
* Booking tickets for the resort/hotel in advance
* Booking a bus/car before hand

Budgeting:

* Figure out the total funds needed for the trip
* Discuss each member’s contribution
* Daily spending limits for each member

Researching the locations and making a schedule:

* research top tourist sights to visit
* plan daily activities and schedule accordingly, for maximum coverage

Q2:

This step involves us thinking back to our past trips and visits to the place for similar solutions:

* ideal time to visit and length of stay.
* Usual prices during tourist season
* Expected delays and traffic situation during the time of year.

Q3:

The next step is abstraction. Which refers to the identification of the key and core elements of the trip.

* Location: Murree (this is the primary focus, everything from hotel bookings to activities depend upon this core element)
* Date and time (in this case the weekend is the constraint, all the acitivties and the trip will be executed within this timeframe)
* Budget(the total budget is another fundamental constraint that dictates the kind of activities and the quality of services available)
* Number of Members ( this determines the modedof travel aswell as the money needed for the trip)

Q4:

The final step asks for us to makea step by step plan on how we are going to ensure a successful trip.

Step 1: Confirm and share travel plans with every member

Step 2: look for travel packages that fit the budget aswell as the length of the trip.

Step 3: Create schedule for the weekend (Friday, Saturday, Sunday),

Step 4: Create packing list based on the weather

Step 5: set aside emergency funds