

Assignment 1 – 60 marks

SkyHigh Adventures, a global travel agency, is offering special discounted packages for family vacations to the Grand Canyon, Yellowstone National Park, and Glacier National Park during the summer holiday season. The cost for a 4-day stay for an adult includes the following:

Option	Destination	Transportation (round trip)	Accommodation (4 days)
1	Grand Canyon	USD 200.00	USD 1,500.00
2	Yellowstone National Park	USD 180.00	USD 1,700.00
3	Glacier National Park	USD 220.00	USD 1,600.00

For families booking a trip, discounts are applied as follows:

Accommodation discounts:

- 1 adult: No discount.
- 2 adults: 15% discount for each adult.
- 3 or more adults: 25% discount for each adult.
- Children: 40% discount for each child.

Transportation discounts:

- No discount for adults.
- 50% discount for each child on transportation costs.

The program should calculate the total vacation cost for **MULTIPLE** families, based on their destination, number of adults, number of children, and other criteria provided above.

Program Requirements:

- The user should input the family last name, destination option (with validation to ensure it's a valid destination), the number of adults, and the number of children in the family.
- For each family, the program will calculate the total transportation and accommodation costs based on the destination, and apply the appropriate discounts for adults and children.
- At the end of the program, the system should display the total cost in Malaysia Ringgit (MYR) for each family.
- If the destination entered is invalid, the program should prompt the user to re-enter a valid destination.
- **Repetition control statement(s)** and **selection control statement(s)** must be used to implement the solution.

Firstly, list down the variable(s) that will be used for this program. Secondly, list down the initialization counter(s). Finally, write down **ONE (1)** Python code for this program using **for** loop **OR** **while** loop.