

Bonus Exercise 1

Objectives:

- To practice decision-making and looping in algorithms.
- To use structured programming concepts for real-world problem-solving

Case Study: Rental Cost Calculation for Adventure Gear

AdventureCo is an outdoor equipment rental company catering to individuals who love camping, hiking, and exploring nature. The company offers three types of gear: **Basic Tent**, **Advanced Tent**, and **Backpack**, each with distinct rental rates for weekdays and additional surcharges for weekends (Saturday and Sunday). Customers can rent equipment for a minimum of **1 day** and a maximum of **7 days**. The rental starts from any day of the week (Monday to Sunday), and the company charges are based on the following rates:

Gear Type	Weekday Rate (per day)	Weekend Surcharge (per day)
Basic Tent	RM25/day	RM8/day
Advanced Tent	RM50/day	RM15/day
Backpack	RM15/day	RM5/day

Example Scenario:

A group of friends plans a camping trip for the weekend. They decide to rent the **Advanced Tent** starting from **Friday** for 4 days (Friday to Monday). The calculation of the total rental cost is as follows:

Weekday (Friday and Monday):

- Weekday Rate = RM50 x 2 days (Friday and Monday)
- Total Weekday Cost = weekday rate x number of weekday
- Total Weekday Cost = RM100

Weekends (Saturday and Sunday):

- Total for each weekend day = WeekdayRate + WeekendSurcharge
- Total for each weekend day = RM50 + RM15 = RM65
- Total Weekend Cost = Total for each weekend day x number of weekend day
- Total Weekend Cost = RM65 × 2 = RM130

Final Calculation:

- Total Rental Cost = Total Weekday Cost + Total Weekend Cost
- Total Rental Cost = RM100 + RM130 = RM230

Using the provided example scenario, **draw a flowchart** to compute the total rental cost for AdventureNow gear rentals. The flowchart should effectively represent this process, ensuring accurate rental cost computation based on different rental durations and gear selections.