

Question 01

Imagine you are developing a simple payroll system for a small business. The company offers a yearly bonus to employees based on their years of service. Write a java program that asks the user to input an employee's years of service and their current salary. The program should calculate and display the bonus amount based on the following conditions:

- If the employee has more than 10 years of service, they receive a 10% bonus on their salary.
- If the employee has between 5 to 10 years of service, they receive a 5% bonus on their salary.
- If the employee has less than 5 years of service, they receive a 2% bonus on their salary.

Question 02

A telecommunication company offers three packages for their customers. Write a java program to input the package type and the number of units called (in seconds) by a customer using the selected package. The program should output the monthly final bill amount of the customer. If the user enters a wrong package type, display a relevant error message.

| Package Type | Unit Charge for a second (LKR) | Monthly Rental (LKR) |
|--------------|--------------------------------|----------------------|
| 1 | 2 | 2500 |
| 2 | 3 | 1500 |
| 3 | 3.5 | 1000 |

Question 03

A plant sales company will do N number of sales per day (N – User input value). Program must accept a number of sales per month. Then calculate the average daily sales. Find the number of days that they exceeded the average sales and display the message according to the following criteria.

| No of days exceeding the average sales | Message |
|--|-------------------------------|
| Average sale days ≥ 15 | Excellent |
| Average sale days ≥ 10 | Good |
| Average sale days ≥ 5 | Need More Product Advertising |

Question 04

Write a java program to accept monthly average rain fall figure for the year 2020 (January to December) into an array. Display the following:

- Annual rain-fall figure of year 2020.
- Month which had the heaviest rain fall.
- Month which had the minimum rain fall.
- Display the rain fall figures from December – January.

Question 05

Write a java program to accept number of covid cases of year 2021. Insert number of covid cases of each month to an array. Program should display the month which has minimum number of covid cases, the month which has maximum number of covid cases, total number of covid cases in 2021 and the months which are greater than average covid cases.