

### **Question 9**

Write a Dart program that removes duplicate items from a list using a Set. Compare the unique count with the original list length and print a message if duplicates were removed.

### **Question 10**

Create a Dart program that builds a map of country codes. Print the value for 'EG', add a new entry 'QA': 'Qatar', print the total length, and check if 'JO' exists—if not, print 'Jordan missing'.

### **Question 11**

Write a Dart program that applies discounts to a price. Use nested if/else to apply different discounts based on whether the user is a student, has a coupon, or if the price is above a threshold. Print the final price.

### **Question 12**

Create a Dart program that safely reads a phone number from a map. If the phone number is null, print a default message. Then update the phone number and print its length.

### **Question 13**

Write a Dart program that calculates a grade (A, B, C, or D) based on a mark. Then use a switch statement to print a message for each grade.

### **Question 14**

Write a Dart program that works with a nullable list of integers. If the list is null or empty, print 'No scores'. Otherwise, calculate and print the sum of the first and last elements and check if it is greater than or equal to 40.

### **Question 15**

Write a Dart program that simulates a simple router using a switch statement on a string path ('/', '/products', '/profile', or other). Handle each case with appropriate output, including maps and null safety where needed.

### **Question 16**

Write a Dart program that evaluates three integer variables with different logical and comparison expressions. Print the results, then decide whether to print 'Rule passed' or 'Rule failed' based on one of the expressions.

### **Question 17**

Write a Dart program that formats a price tag string with a currency. Apply string methods such as toString, padLeft, and length to format and compare the results.

### **Question 18**

Write a Dart program that reads environment variables from a map. If a value is null, replace it with a default. Print values in uppercase, and display 'Prod ready' or 'Non-prod' depending on conditions.

### ***Question 19***

Write a Dart program that converts a list of names to a set of unique values. Create a map with counts of occurrences. Compare lengths and print a message if a specific name appears more than once.

### ***Question 20***

Write a Dart program that checks access rules for a ticket gate. If the user is under 18, check if they have a parent. Use a switch statement on an area variable (general or restricted) to decide what message to print.