

# Assignment 3

- (1) What are the various types of operators in Dart? Explain with Examples.
- (2) Cost of one movie ticket is 600 PKR. Write a script to store ticket price in a variable & calculate the cost of buying 5 tickets to a movie.
- (3) How to get difference of lists in Dart?  
Problem: Consider you have two lists [1,2,3,4,5,6,7] and [3,5,6,7,9,10]. How would you get the difference as output? E.g. [1, 2, 4].
- (4) What is a difference between these operators “?? And?”
- (5) What are the data types supported in Dart? Explain with Examples.
- (6) Solve:
  - a. First declare an array and assign the numbers of the table of 7.
  - b. Second declare another array and assign the numbers 1-10
  - c. Now write down the table of 7 using map.fromiterables method.
- (7) Write a program that
  - a. Store correct password in a JS variable.
  - b. Asks user to enter his/her password
  - c. Validate the two passwords:
  - d. Check if user has entered password. If not, then give message “Please enter your password”
  - e. Check if both passwords are same. If they are same, show message “Correct! The password you
  - f. entered matches the original password”. Show “Incorrect password” otherwise.
- (8) Write a program to store 3 student names in an array. Take another array to store score of these three students. Assume that total marks are 500 for each student, display the scores & percentages of students.
- (9) Declare 5 legal & 5 illegal variable names.
- (10) Write a program to replace the “Hyder” to “Islam” in the word “Hyderabad” and display the result.

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- (11) Write a program to generate your K-Electric bill 7. All the amounts should be rounded off to 2 decimal places. Display the following fields:
- a. Customer Name
  - b. Current Month
  - c. Number of units
  - d. Charges per unit
  - e. Net Amount Payable (within Due Date)
  - f. Late Payment Surcharge
  - g. Gross Amount Payable (after Due Date)

Where, Net Amount Payable (within Due Date) = Number of units \* Charges per unit  
& Gross Amount Payable (after Due Date) = Net Amount + Late Payment Surcharge

OR

- (12) Write a program that shows the message “First fifteen days of the month” if the date is less than 16th of the month else shows “Last days of the month”.
- (13) Find 5 new methods of List and String.

***Best of Luck!***