Introduction to dart Install Dart SDK Dart pad What is dart? Features of dart Difference between dart and flutter. Dart Keywords, Identifiers Variables Other of the strings Boolean Lists Maps Sets Runes Symbols Enumeration (enum) Dart Constants Dart Operators Arithmetic Operators Logical Operators Logical Operators Logical Operators User Input in dart Input: (x = 3, y = 4, z = 5) Output: (x = 4, y = 5, z = 3) Write a Dart program which accepts the user's first and last name and print them in reverse order with a space between them, e.g.: Anna Rose Ans = Rose Anna https://dart-tutorial.com/ Practice the topics mentioned. Write a Dart program to Swap Values of Three variables like that. Input: (x = 3, y = 4, z = 5) Output: (x = 4, y = 5, z = 3) Write a Dart program which accepts the user's first and last name and print them in reverse order with a space between them, e.g.: Anna Rose Ans = Rose Anna https://youtu.be/w_yY7xyCaUE	DAY	SYLLABUS TOPICS	REFERNCE AND TASKS
Features of dart Difference between dart and flutter. Dart Keywords, Identifiers Variables Odynamic Variables Number Strings Boolean Lists Maps Sets Runes Symbols Enumeration (enum) Dart Constants Dart Operators Arithmetic Operators Increment and Decrement Operators Increment and Decrement Operators Increment and Decrement Operators Logical Operators Type Test Operators Write Program to Swap Values of Three variables like that. Input: (x = 4, y = 5, z=3) Write a Dart program which accepts the user's first and last name and print them in reverse order with a space between them, e.g.: Anna Rose Ans = Rose Anna https://youtu.be/w_yY7xyCaUE	1	Install Dart SDK Dart pad	
 Number Strings Boolean Lists Maps sets Runes Symbols Enumeration (enum) Dart Constants Final Const Arithmetic Operators Increment and Decrement Operators Assignment Operators Logical Operators Type Test Operators user's first and last name and print them in reverse order with a space between them, e.g.: Anna Rose Anns = Rose Anna https://youtu.be/w yY7xyCaUE 		Features of dart Difference between dart and flutter. Dart Keywords, Identifiers Variables o dynamic	variables like that. Input: $(x = 3, y = 4, z = 5)$
		 Number Strings Boolean Lists Maps sets Runes Symbols Enumeration (enum) Dart Constants Final Const Dart Operators Arithmetic Operators Increment and Decrement Operators Assignment Operators Logical Operators Type Test Operators 	user's first and last name and print them in reverse order with a space between them, e.g.: Anna Rose Ans = Rose Anna

DAY	SYLLABUS TOPICS	REFERENCE AND TASKS
2	Control Flow Statements Decision-making statements If If If-else If else if Statement Switch Case Statement Ternary Operator Looping statements If or loop If or each While loop If owhile loop If or each If else if Statement If else if St	Program to print patterns: star, numbers, character. Write a dart program to generate multiplication tables of 1-9. Write a dart program to create a simple calculator that performs addition, subtraction, multiplication, and division. Write a dart program to print 1 to 100 but not 41.

String Methods and Properties List Methods and Properties PROPERTIES isEmpty isNotEmpty iterator last length	DAY	SYLLABUS TOPICS	REFERENCE AND TASKS
 reversed single METHODS add addAll clear contains elementAt firstWhere fold forEach 		String Methods and Properties List Methods and Properties PROPERTIES	String class - dart:core library - Dart API https://api.dart.dev/stable/1.10.1/dart-
		reducetoListtoSet	

4	Map Methods and Properties	Dart Map - Javatpoint
	<u>Properties</u>	Set class - dart:core library - Dart API
	keys values length isEmpty isNotEmpty	Refer all methods and properties of list, set, map and strings beyond the given topics and workout programs.
	<u>Methods</u>	
	addAll () remove () foreach () clear ()	
	Set Methods and Properties Set Operations	
5	Functions	
	Types of parameters (very important) Required Parameters Optional Parameters Named Parameters Anonymous functions Arrow functions	https://youtu.be/EBu3pl_desA https://youtu.be/TnOuPlQRa0Y Write Program to Calculate Area of Circle.
		Write Program to Calculate Area of Square. Write Program to Calculate Area of Rectangle

Practice basic problems basic using 1. Program to generate Fibonacci sequence. 6 • Fibonacci program using loop. Dart • Fibonacci program using recursion. Complete pending tasks and learn more about dart. 2. Program to convert character & string to ASCII value (Code Units). 3. Program to check if number or string is palindrome or not 4. Program to generate random number bool, int, double. 5. Program to check if a given number is Armstrong or not. 6. Program to check if a give number is prime or not. 7. Program to check if a given number is spy number or not.