# Flutter Assignments

## Module – 1

### Flutter – Introduction

1. Display This Information using print
   - Your Name
   - Your Birth date
   - Your Age
   - Your Address

2. Write a program to make addition, Subtraction, Multiplication and Division of Two Numbers.

3. Write a program to make a square and cube of number.

4. Write a program to find the Area of Circle

5. Write a program to find the Area of Triangle

6. Write a program to find the simple Interest.

7. Write a program to convert temperature from degree centigrade to Fahrenheit.

8. Write a program to calculate sum of 5 subjects & find the percentage. Subject marks entered by user.

9. Write a Program to show swap of two No's without using third variable.

10. Write a Program to check the given number is Positive, Negative.

# Module – 2

# Flutter – Dart Programing

11. Write a Program to check the given year is leap year or not.
12. Write a Program to check the given number is prime or not prime.
13. Write a program to find the Max number from the given three number using Nested If
14. Write a program to find the Max number from the given three number using Ternary Operator
15. Write a program to find the Max number from the given three number using Nested If
16. Write a program user enter the 5 subjects mark. You have to make a total and find the percentage. percentage > 75 you have to print "Distinction" percentage > 60 and percentage <= 75 you have to print "First class" percentage >50 and percentage <= 60 you have to print "Second class" percentage > 35 and percentage <= 50 you have to print "Pass class" Otherwise print "Fail"
17. Write Program use switch statement. Display Monday to Sunday
18. Write a Program of Addition, Subtraction ,Multiplication and Division using Switch case.(Must Be Menu Driven)
19. Write a program of to find out the Area of Triangle, Rectangle and Circle using If Condition.(Must Be Menu Driven)
20. Looping Programs
    Write a program to print the 1 to 10 using For loop.
    Write a Program to print the 51 to 60 using while loop
    Write a program to print the 100 to 81 using do        while loop
    Write a program you have to find the factorial of given number.
    Write a program you have to print the Fibonacci series up to user given number
    Write a program you have to print the table of given number.
    Write a program to print the number in reverse order.
    Write a program to find out the max from given number (E.g. No: -1562 Max number is 6
    Write a program make a summation of given number

    (E.g. 1523 ans :-11)

    Write a program you have to make a summation of first and last Digit. (E.g. 1234 ans:-5)

Create Below Patterns:

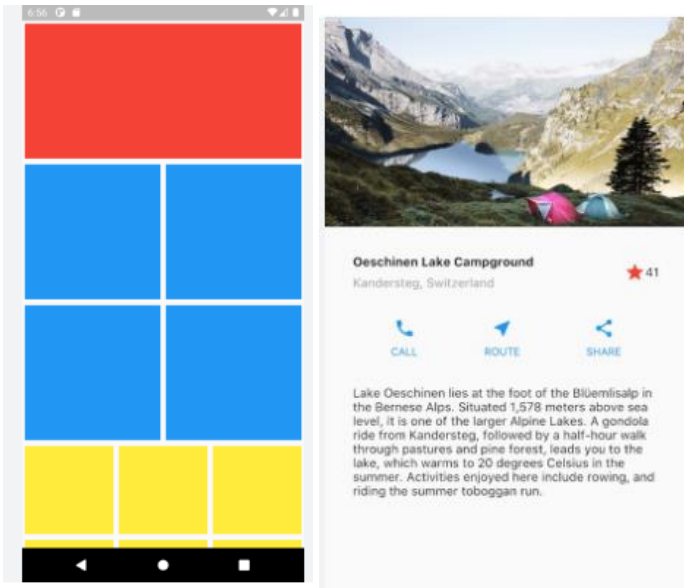| | | | |
|---|---|---|---|
| *<br>**<br>***<br>****<br>***** | 1<br>12<br>123<br>1234<br>12345 | 1<br>22<br>333<br>4444<br>55555 | *<br>**<br>***<br>****<br>***** |
| 1<br>21<br>321<br>4321<br>54321 | *<br>**<br>***<br>****<br>***** | *<br>* *<br>* * *<br>* * * *<br>* * * * * | 1<br>1 2<br>123<br>1234<br>1 2 3 4 5 |
| 1<br>2 2<br>333<br>4444<br>55555 | 1<br>2 3<br>456<br>7 8 9 10<br>11 12 13 14 15 | 1<br>0 1<br>101<br>1010<br>10101 | 1<br>4 4<br>999<br>16 16 16 16<br>25 25 25 25 25 |

21. What is inheritance?
22. Which inheritance is not supported by Dart? Why? B3. What is advantage of inheritance?
23. Difference between inheritance and encapsulation. B5. Difference between inheritance and abstraction.
24. Difference between inheritance and polymorphism
25. Can we override static method in Dart?
26. Can we overload static method in Dart?
27. Can a class implement more than one interface? B10. Can a class extend more than one class in Dart?
28. Can an interface extend more than one interface in Dart?
29. What will happen if a class implements two interfaces and they both have a method with same name and signature?
30. Can we pass an object of a subclass to a method expecting an object of the super class? B14. Are static members inherited to sub classes?
31. What happens if the parent and the child class have a field with same identifier? B16. Are constructors and initializers also inherited to sub classes?
32. How do you restrict a member of a class from inheriting by its sub classes?
33. How do you implement multiple inheritance in Dart?
34. Can a class extend by itself in Dart?

35. How do you override a private method in Dart?
36. When to overload a method in Dart and when to override it?
37. What the order is of extends and implements keyword on Dart class declaration?

38. How do you prevent overriding a Dart method without using the final modifier?
39. What are the rules of method overriding in Dart?
40. Difference between method overriding and overloading in Dart.

41. What happens when a class implements two interfaces and both declare field (variable) with same name?

42. Can a subclass instance method override a superclass static method?

43. Can a subclass static method hide superclass instance method?
44. Can a superclass access subclass member?
45. Difference between object oriented and object based language.
46. Create a program using List
47. Create a program using Set
48. Create a program using Map

# Module 3

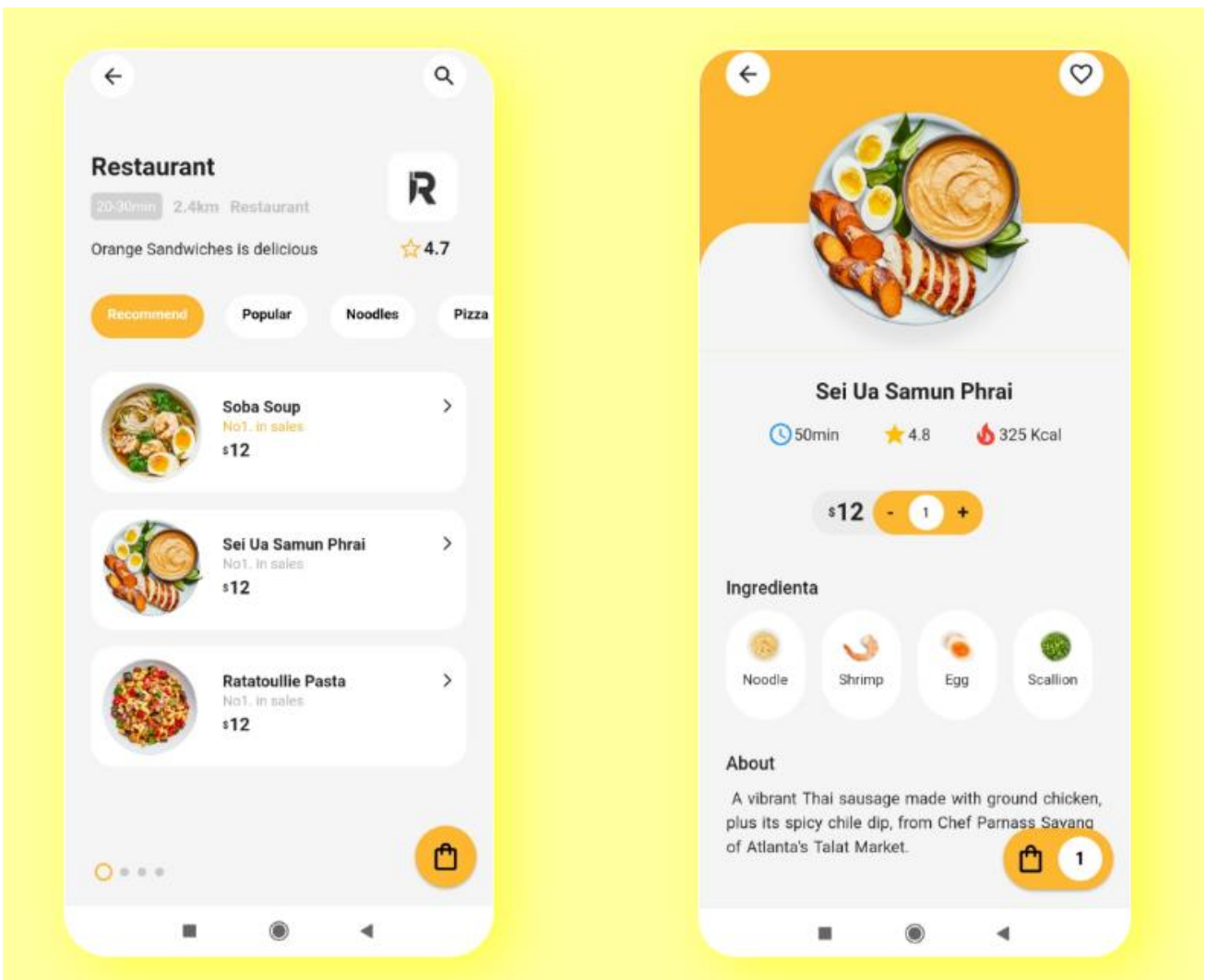# Flutter - UI Designing and Development

49. Create below screens



50. Create an application to take input number from user and print its reverse number in TextField

51. Create an application to input 2 numbers from user and all numbers between those 2 numbers in next activity

52. Create an application with radio buttons (Add, Substraction, Multiply, Division) EditText (number1, number2) and print result as
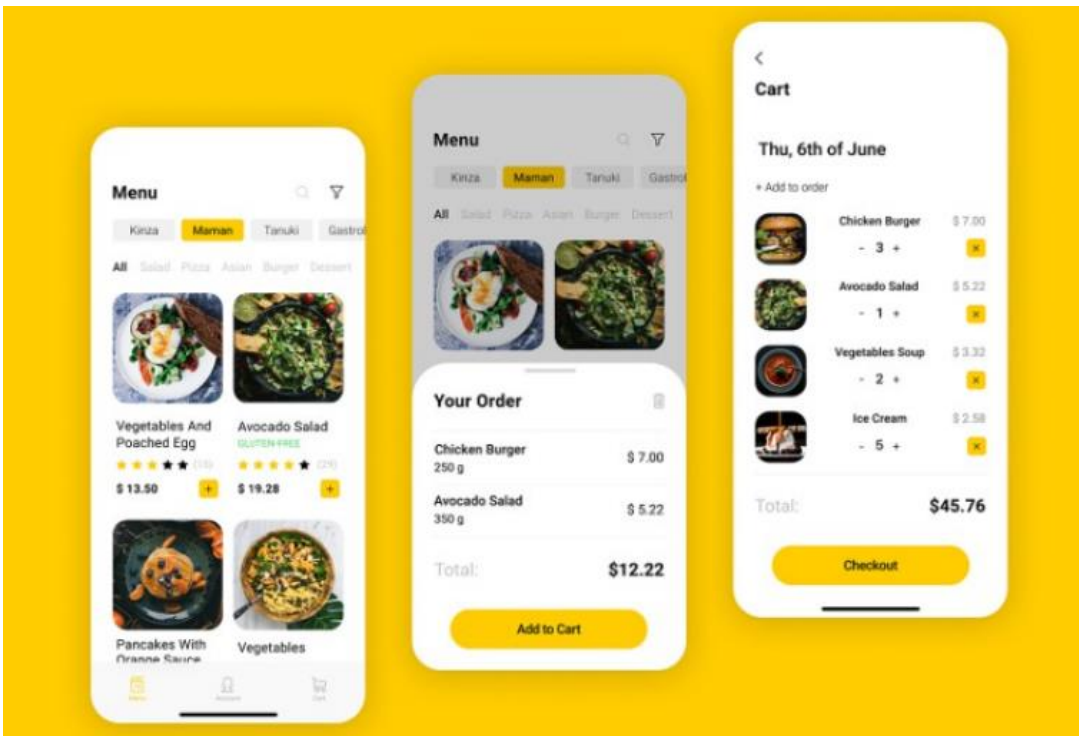
per user choice from radio button in TextView

53. create an application to change background when button is clicked
54. create an application to increate font size when plus button click and decrease when minus button click

55. create an application to display Textview when checkbox is checked and hide otherwise

56. Write a program to show four images around Textview.
57. Write a program in android display screen color which the Color will be select from the radio button.

58. Write a program you have taken three seek bar controls. From three Seekbar which Seekbar value changed the background color of device will be changed.

59. Create login and registration form

60. Design below screens

# Module 4

# Flutter – Advance

# UI Designing and Development



61. Create custom toolbar as per given below design Create toolbar with spinner and search functionality

62. Write a code to display simple alert dialog with title, description and icon when button is clicked

63. Write a code to display alert dialog with positive, negative and neutral button and display toast respectively user's choice

64. Write a code to display alert dialog with list of cities and Single choice selection display selected city in TextView

65. open alert dialog when user want to exit from the application

66. Write a code to select Date on button's click event

67. Write a code to display profile and logout option in options menu

68. Write a code to display edit, view, delete options with context menu

in listview and also perform respective operation on user's choice

69. Create an application like gmail and display Screens according to user selection and design each page with dummy data

70. Create an application with bottom navigation with 3 tabs Gallery, audio and video and design each page with dummy data

71. Create an application with Navigation Drawer with 3 tabs Gallery, audio and video and design each page with dummy data

72. create a Phone call App when user first time open the app it will automatically generate one dialog which has two option allow, deny if click on allow permission is grant in settings

73. Write a code to display Splash Screen using Activity

74. Write a code to redirect user from one activity to another when button click.

75. Create an Android Application which Manage Activity Lifecycle Stages and Showing Toast with Performing Different Stages.

76. Create an Application to take input two numbers from users and when user press button then display sum of those values of next Activity.

77. Call via urllauncher, Send Sms via urllauncher

78. Write a program to add name from the text view and insert into the listview. If you click on the listview then name should be show in the dialog box. When user press for 2 seconds on particular List item then open Context Menu (Delete Item, Edit Item, Exit). If user click on Delete Item then Open one Alert Dialog with message ("Are you sure want to delete Item?") and yes, no button if user press yes button then remove item from list. (Click a DELETE button, it gives a confirm box) If user click on Edit item then selected item display on EditText and again user click on button then this (updated item) should be replace with old item

# Module 5

# Flutter

# Offline Database – SQFLITE

To create task management application for adding, updating, deleting the task and show the

tasks in the listview or gridview. Task have name, description, date, time, priority. • To sort the task by the date and time wise. • If task is due then automatically show as blue color. • It will search the tasks by date wise. • If high priority then show as red color, average priority as blue color, low priority as green color. • Select specified item an open context menu to select "Complete the Task" then this task is modified as gray color and stripe line over the all the statements (showable labels). • Search task by name in the listview.

Create an app for Manage Crud Operation using Sqflite

# Module 6

# Flutter
# Advance App Development

Create application which perform registration, login and logout using for firebase authentication

Apply if user already logged it call dashboard screen (manage session)

Use FirebaseFirestore concept

Fetch data from api using of http and display on listview.builder