

1a
Hello world

1b
2
1
addition is = 3
Subtraction is = 1
Multiplication is = 2
Division is = 2

Practical 1 Flimi Introduction to Dart Programming

AJ
→

WAP to Display "Hello World" msg in Dart Pad
Void main()
{

 print ("Hello World")
}

BJ
→

Working with String And Basic Operation
Void main()
{

```
int a=3;  
int b=4;  
int c1=a+b;  
print ("Addition is = \$c1");  
Var C2=a-b;  
print ("Subtraction is = \$c2");  
Var C3=a * b;  
print ("Multiplication is = \$\$c3");  
Var C4 = 9 / 4;  
print ("Division is = \$c4");
```

CJ

Working with String

10

SyBSC IT

Dart Coding fun

False

True

10

[FYIT, SYIT, TYIT]

FYIT

FYIT

SYIT

TYIT

→ Void main()

```
String String = "SyBSC IT";
String String = "Dart Coding is",
String String1 = " fun",
String String2 = " fun";
print (String),
bool val = (String1 == String2);
Print (val);
print (String1 + String2);
```

DJ

→ Working with list

Void main()

```
Var myList = ['fy', 'sy', 'ty'];
print (myList);
print (myList [0]);
Var len = myList .length;
For (int i=0; i < len; i++)
print (myList [i]);
```

E8J

→

```
Accepting Input from user;
import 'dart : io';
Void main () {
```

FOR EDUCATIONAL USE

1 E

F

Percentage = 82.666

Your Grade is A

String Name = Stdin . Readline Sync();
Print ("Hello, \$ Aname");

Q1. Working with Conditional and looping Statement
Q1.1. WAP to Check the given number even or odd
Void main ()

```
int a=5;  
if ( a % 2 == 0 )  
    Print ("even")  
else  
    Print ("odd")
```

Q1.2. Print 1 to 10 numbers (using for loop)
Void Main ()

```
int num=1;  
for (num; num<=10; num++)  
    Print (num);
```

Q1.3. Display first ten even values using while loop

FOR EDUCATIONAL USE

29
24
6
8
10
12
14
16
18
20

→ Void main () {
 int i = 1;
 while (i <= 10) {
 if (i % 2 == 0) {
 print (i);
 i++;
 }
 }

Q4. Using the do while Stmt to Display odd no's

→ Void main () {
 int num = 0;
 do {
 if (num % 2 == 1)
 print (num);
 num++;
 } while (num < 10);

5. Else..... if Ladder;

→ Void main () {
 int a = 10;

FOR EDUCATIONAL USE

```
if ( a < 9 )
{
    print (" Condition 1 is true ");
    a++;
}
else if ( a < 10 )
{
    print (" Condition 2 is true ");
}
else if ( a >= 10 )
{
    print (" Condition 3 is true ");
}
else
{
    print (" All the Condition are false ");
}
```

Q.6 Nested if Statement

→ void main

```
int a, b, c;
for (a=1 ; a<=2 ; a++)
{
    for (b=a ; b<=5 ; b++)
        c = a * b;
```

FOR EDUCATIONAL USE

13) Square is : 16

Cube is : 64

3) print ($\$a + \$b = \$c$);

7) Define a function that accepts one parameter and returns Square & Cube of the given value.

→ Void main ()

int Square (int a) {
 return a * a;

int Cube (int a) {
 return a * a * a;

Var C = Square (4);
print ("The Square is : \$c");
Var D = Cube (4);
print ("The Cube is : \$d");

Practical 2

Working with widgets

Aim: Design the mobile App

→ import 'package:flutter/material.dart';
void main () {

runApp (MaterialApp (

debugShowCheckMode:Banner: false,

home: my App (),

);

class my App extends StatefulWidget {

const my App ({Key? key}) : super (key: key),

@override

State<my App> createState () => MyAppState();

};

class MyAppState extends State<my App> {

TextEditingController controller1 = TextEditingController

controller1();

TextEditingController controller2 = TextEditingController

controller2();

int? num1 = 0,

num2 = 0,

result = 0;

add() {

setState (()

num1 = int.parse(controller1.text),

num2 = int.parse(controller2.text),

result = num1! + num2!;

};

};

FOR EDUCATIONAL USE

Result is 0

(Enter the Number)

(Enter the number)

[ADD]
[Mul]

[SUB]
[Div]

Sub () {

Set State () {

```
num1 = int.parse(Controller1.text);  
num2 = int.parse(Controller2.text);  
result = num1 - num2;
```

}

Mul () {

Set State () {

```
num1 = int.parse(Controller1.text);  
num2 = int.parse(Controller2.text);  
result =
```

}

Div () {

Set State () {

```
num1 = int.parse(Controller1.text);  
num2 = int.parse(Controller2.text);  
result = num1 ~/ num2;
```

}

@override

Widget build (BuildContext context) {

return Scaffold (

appBar: AppBar (

title: Text ('Simple Calculator'),
backgroundColor: Colors.blue.shade300,
,

FOR EDUCATIONAL USE

realme

Shot by R@hul

2023/10/25 18:34

```
body: Column (  
    Children : [  
        Sized Box (   
            Height : 15  
        ),
```

```
        Text ("Result is: $result", Style: TextStyle(fontSize: 20,  
            color: Colors.blue.shade 70  
        ),  
        Sized Box (
```

```
            Height : 15  
        ),  
        Text Field (
```

```
            controller: controller,  
            decoration: InputDecoration(  
                labelText: "Enter Number", border: OutlineInputBorder(  
                    borderRadius: BorderRadius.circular(20)  
                )  
            ),  
            ),  
            ),
```

```
,  
        Sized Box (   
            Height : 15  
        ),  
        Text field (
```

```
            controller: controller 2,  
            decoration: InputDecoration(  
                labelText: "Enter Number", border: OutlineInputBorder(  
                    borderRadius: BorderRadius.circular(20)  
                )  
            ),  
            ),  
            ),
```

FOR EDUCATIONAL USE

SizedBox(

Height: 15)

),

Row(mainAxisSize: MainAxisSize.SpaceEvenly,
children: [

ElevatedButton(onPressed: () {

Add()

Controller1. clear();

Controller2. clear();

], Child: Text('ADD'))

ElevatedButton(onPressed: () {

Sub()

, Child: Text('SUB'))

],

), Row(

mainAxisSize: MainAxisSize.SpaceEvenly,
children: [

ElevatedButton(onPressed: () {

mul()

, Child: Text('MUL'))

ElevatedButton(onPressed: () {

div()

, Child: Text('DIV'))

],

],

),

],

FOR EDUCATIONAL USE

Practical 3

Aim: Design the mobile App to Implement layouts

-> `import 'package: flutter/material.dart';`
`void main() {`
 `runApp(DemoApp());`

```
class DemoApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      title: 'My Application',
      debugShowCheckedModeBanner: true,
      home: Scaffold(
        body: Padding(
          padding: const EdgeInsets.all(20.0),
          child: Column(
            mainAxisAlignment: MainAxisAlignment.spaceEvenly,
            children: [
              Container(height: 100, width: 100, color: Colors.red),
              Container(
                height: 100, width: 100, color: Colors.purple[900]),
            ],
          ),
        ),
      ),
    );
  }
}
```

FOR EDUCATIONAL USE

height: 100, width: 100, Colors: #amberAccent),
Container

height: 100, width: 100, Colors: #amberAccent [100],
Container C

Height: 100, width: 100, Colors: Color: #amberAccent
[2005],

J,

J,

J,

)

J;

J

FOR EDUCATIONAL USE





Montreal C

```
import 'package:flutter/material.dart';

void main() {
  runApp(MaterialApp(
    home: MyApp(),
  ));
}

class MyApp extends StatelessWidget {
  const MyApp({Key? key}) : super(key: key);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: Text('Theming And Styling'),
      ),
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.spaceEvenly,
          children: [
            Image.network('https://lumiera-aokamaihd.net/v1/images/P_dinesyplusoriginals_loki_Se_01_613_02_806cfabd.jpeg?wrgin=0%26h0%26w40%26f81o');
          ],
        ),
      ),
    );
  }
}
```

FOR EDUCATIONAL USE

height: 250, width: 250,)

1,

2,

3,

4,

5,



FOR EDUCATIONAL USE



realme Shot by R@hul

2023/10/25 18:34

Practical 5

```
import 'package:flutter/material.dart';
void main() {
  runApp(Correct
    MaterialApp(home: MyApp()));
}
class MyApp extends StatefulWidget {
  const MyApp({Key? key});
  @override
  State<MyApp> createState() => MyAppState();
}
class MyState extends State<MyApp> {
  int n=0;
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Center(
        child: Column(
          mainAxisAlignment: MainAxisAlignment.spaceEvenly,
          children: [
            Text('Tapped' + n.toString() + 'Times'),
            TextStyle(TextStyle(fontSize: 30)),
          ],
        ),
      ),
    );
  }
}
```

FOR EDUCATIONAL USE

GestureDetector(

onTap(() {

SetState(() { n++,

});

child: Container(

padding:

EdgeInsets.all(20),

width: 100,

height: 50,

color:

Colors.deepPurple[200],

),

),

),

),

),

);

);

FOR EDUCATIONAL USE