5.1. W.A.P. to display “hello world” using Text widget. Change color & size of text using different properties. (A)

Code:

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

class TextWidgetDemo extends StatelessWidget {
 const TextWidgetDemo({super.key});

 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: const Text("Text Widget Demo"),
    backgroundColor: Colors.grey,
   ),
   body: const Center(
    child: Text(
     "hello world",
     style: TextStyle(
        color: Colors.white,
        backgroundColor: Colors.black,
        fontSize: 40,
        fontWeight: FontWeight.bold,
        fontStyle: FontStyle.italic

     ),
    ),
   ),
  );
 }
}
```

Output:

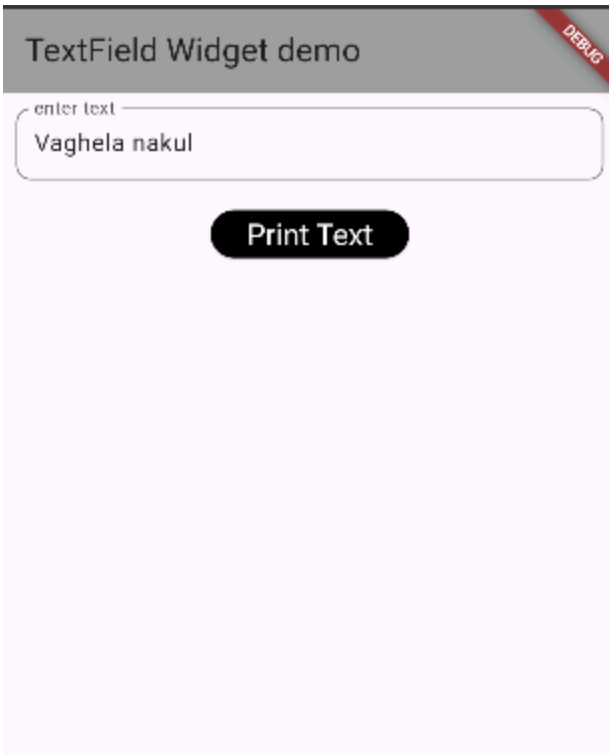
5.2. W.A.P. to use TextField and print the input value into the terminal using the controller. (A)

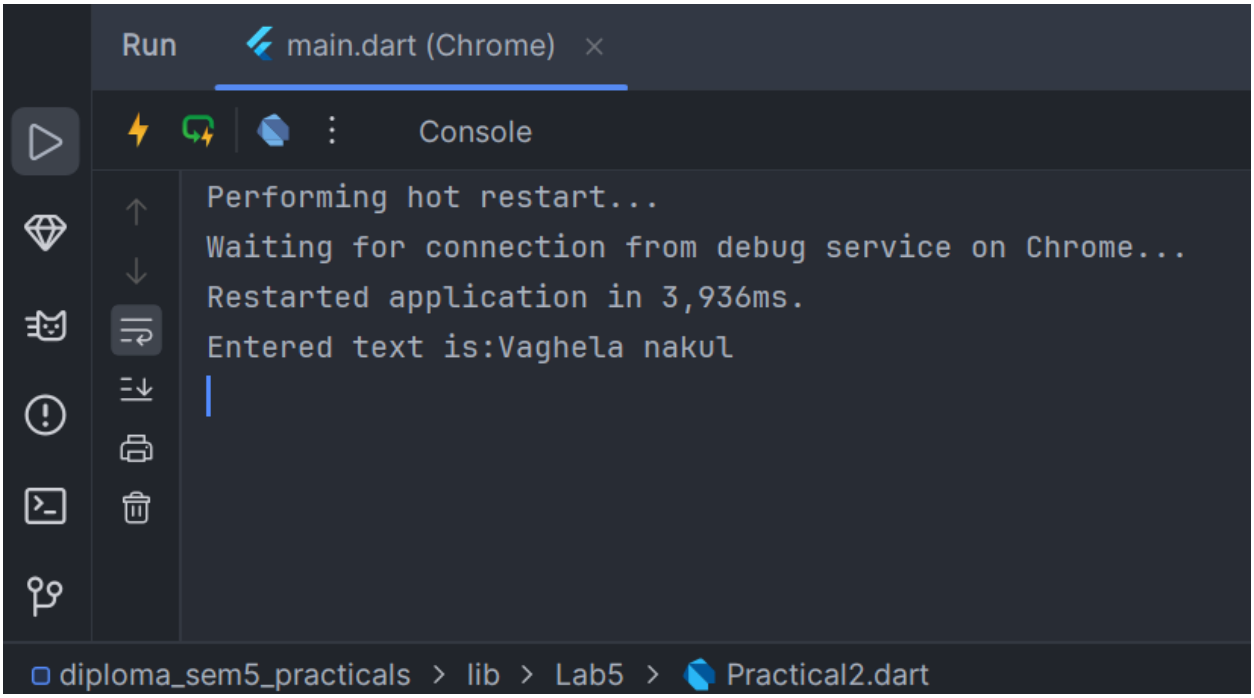
Code:

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

class TextFieldDemo extends StatelessWidget {
 TextEditingController controller = TextEditingController();

 TextFieldDemo({super.key});

 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: const Text("TextField Widget demo"),
    backgroundColor: Colors.grey,
   ),
   body: Padding(
    padding: const EdgeInsets.all(10),
    child: Column(
     children: [
      TextField(
       controller: controller,
       decoration: InputDecoration(
        hintText: "Enter text",
        hintStyle:
          const TextStyle(color: Colors.blueAccent, fontSize: 15),
        labelText: "enter text",
        border: OutlineInputBorder(
         borderRadius: BorderRadius.circular(10),
        ),
       ),
      ),
      const SizedBox(
       height: 20,
      ),
      ElevatedButton(
```

```
            style: const ButtonStyle(
              backgroundColor: WidgetStatePropertyAll(Colors.black),
              foregroundColor: WidgetStatePropertyAll(Colors.white),
              textStyle: WidgetStatePropertyAll(TextStyle(fontSize: 20))),
            onPressed: () {
             print("Entered text is:${controller.text}");
            },
            child: const Text(
             "Print Text",
            ))
        ],
      ),
    ),
  );
 }
}
```

Output:


TextField Widget demo
DEBUG
enter text
Vaghela nakul
Print Text


Run
main.dart (Chrome)
Console
Performing hot restart...
Waiting for connection from debug service on Chrome...
Restarted application in 3,936ms.
Entered text is:Vaghela nakul
diploma_sem5_practicals > lib > Lab5 > Practical2.dart

5.3. W.A.P. to do validation in the login screen. (Email Validation & Password Validation) on Button click. (B)

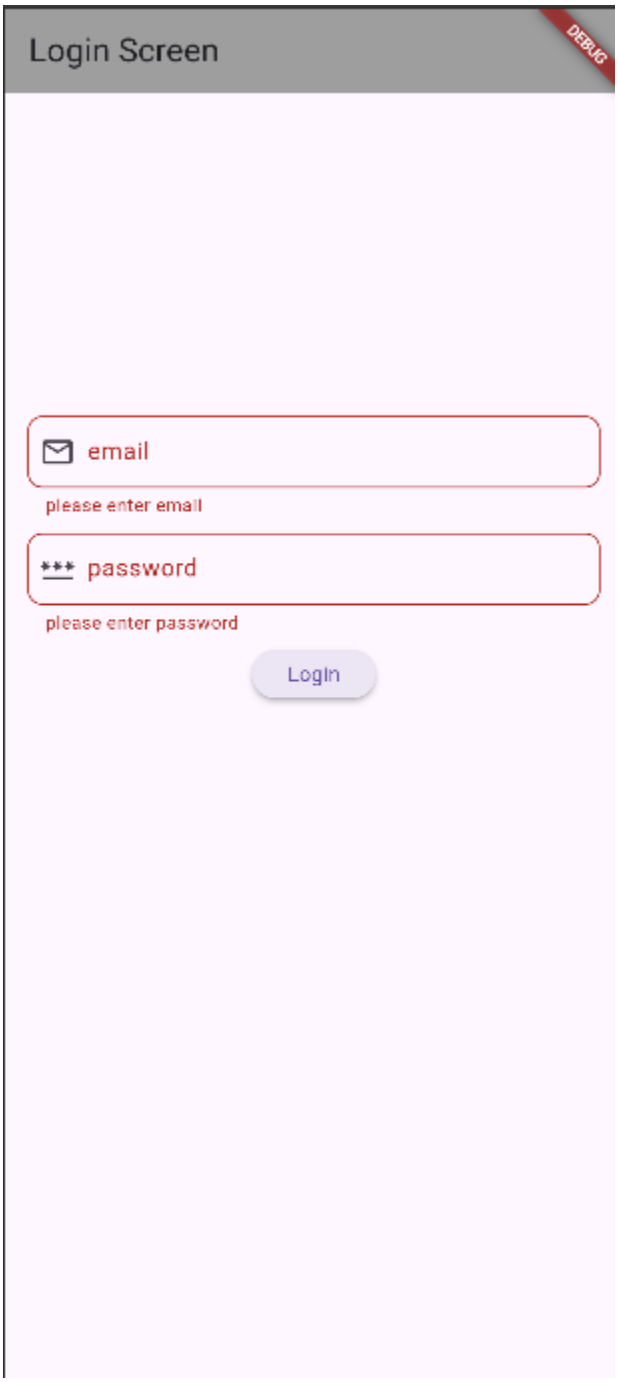
Code:

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

class LoginScreen extends StatelessWidget {
 final formKey = GlobalKey<FormState>();
 TextEditingController email = TextEditingController();
 TextEditingController password = TextEditingController();

 LoginScreen({super.key});

 @override
 Widget build(BuildContext context) {
  return Scaffold(
   appBar: AppBar(
    title: const Text("Login Screen"),
    backgroundColor: Colors.grey,
   ),
   body: Padding(
    padding: const EdgeInsets.all(15),
    child: Form(
      key: formKey,
      child: Padding(
       padding: const EdgeInsets.only(top: 200),
       child: Column(
        children: [
         TextFormField(
          controller: email,
          decoration: InputDecoration(
           hintText: "Enter your email",
           labelText: "email",
           prefixIcon: const Icon(Icons.email_outlined),

           border: OutlineInputBorder(
            borderRadius: BorderRadius.circular(10),
           ),
```

```
    focusedBorder: OutlineInputBorder(
      borderRadius: BorderRadius.circular(10),
      borderSide: const BorderSide(color: Colors.green)
    )

   ),
   validator: (value){
    if(value==null || value.isEmpty){
     return "please enter email";
    }
    final emailPattern=RegExp(r'^[\w.-]+@[\w]+\.+[\w]{2,4}$');
    if(!emailPattern.hasMatch(value)){
     return "please enter valid email";
    }
    return null;
   },
  ),
  const SizedBox(
   height: 10,
  ),
  TextFormField(
   controller: password,
   decoration: InputDecoration(
    hintText: "enter password",
    prefixIcon: const Icon(Icons.password),
    labelText: "password",
    border: OutlineInputBorder(
     borderRadius: BorderRadius.circular(10),
    ),
   ),
   validator: (value){
    if(value==null || value.isEmpty){
     return "please enter password";
    }
    final passwordPattern=RegExp(r'^[\w.]+$');
    if(!passwordPattern.hasMatch(value)){
     return "please enter valid password";
    }
```

```
                if(value.length<7){
                  return "password must be at lease 8 letter";
                }
                return null;
              },
            ),
            const SizedBox(
              height: 10,
            ),
            ElevatedButton(onPressed: (){
              if(formKey.currentState!.validate()){
                ScaffoldMessenger.of(context).showSnackBar(
                    const SnackBar(content: Text("Successfully login"))
                );
              }
            }, child: const Text("Login"))
          ],
        ),
      )
    ),
  ),
 );
 }
}
```

Output:


Login Screen
DEBUG
email
please enter email
*** password
please enter password
Login