DESIGN CODE AND FUNCTION CODE

DESIGN CODE -

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:background="@drawable/bg"  
 tools:context=".LoginActivity">  
  
 <TextView  
 android:id="@+id/logo"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Login"  
 android:textColor="@color/colorWhite"  
 android:textColorHighlight="@android:color/white"  
 android:textSize="36sp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.13" />  
  
 <EditText  
 android:id="@+id/inputPassword"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:background="@drawable/input\_bg"  
 android:drawableLeft="@drawable/ic\_security"  
 android:textAlignment="gravity"  
 android:drawablePadding="10dp"  
 android:ems="10"  
 android:hapticFeedbackEnabled="false"  
 android:hint="Password"  
 android:inputType="textPassword|numberPassword"  
 android:paddingLeft="20dp"  
 android:paddingTop="10dp"  
 android:paddingRight="10dp"  
 android:paddingBottom="10dp"  
 android:singleLine="true"  
 android:textColorHint="@color/colorWhite"  
 app:layout\_constraintEnd\_toEndOf="@+id/inputEmail"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="@+id/inputEmail"  
 app:layout\_constraintTop\_toBottomOf="@+id/inputEmail" />  
  
 <EditText  
 android:id="@+id/inputEmail"  
 android:layout\_width="321dp"  
 android:layout\_height="46dp"  
 android:layout\_marginStart="32dp"  
 android:layout\_marginLeft="32dp"  
 android:layout\_marginTop="56dp"  
 android:layout\_marginEnd="32dp"  
 android:layout\_marginRight="32dp"  
 android:background="@drawable/input\_bg"  
 android:drawableLeft="@drawable/ic\_email"  
 android:textAlignment="gravity"  
 android:drawablePadding="10dp"  
 android:ems="10"  
 android:hint="Email"  
 android:inputType="textPersonName"  
 android:paddingLeft="20dp"  
 android:paddingTop="10dp"  
 android:paddingRight="10dp"  
 android:paddingBottom="10dp"  
 android:textColorHint="@color/colorWhite"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/logo" />  
  
 <TextView  
 android:id="@+id/forgotPassword"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 android:text="Forgot Password ?"  
 android:textColor="@color/colorWhite"  
 android:textSize="18sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="@+id/inputPassword"  
 app:layout\_constraintTop\_toBottomOf="@+id/inputPassword" />  
  
 <Button  
 android:id="@+id/btnLogin"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="24dp"  
 android:background="@drawable/btn\_bg"  
 android:text="Login"  
 app:layout\_constraintEnd\_toEndOf="@+id/inputPassword"  
 app:layout\_constraintStart\_toStartOf="@+id/inputPassword"  
 app:layout\_constraintTop\_toBottomOf="@+id/forgotPassword" />  
  
 <LinearLayout  
 android:id="@+id/linearLayout"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:gravity="center"  
 android:orientation="horizontal"  
 android:textAlignment="center"  
 app:layout\_constraintEnd\_toEndOf="@+id/btnLogin"  
 app:layout\_constraintHorizontal\_bias="0.0"  
 app:layout\_constraintStart\_toStartOf="@+id/btnLogin"  
 app:layout\_constraintTop\_toBottomOf="@+id/btnLogin">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Don't have an Account? "  
 android:textColor="@color/colorWhite" />  
  
 <TextView  
 android:id="@+id/textViewSignUp"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="SignUp"  
 android:textColor="@color/colorAccent" />  
  
 </LinearLayout>  
  
 <Button  
 android:id="@+id/btnGoogle"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="32dp"  
 android:layout\_marginLeft="32dp"  
 android:layout\_marginTop="8dp"  
 android:layout\_marginEnd="8dp"  
 android:layout\_marginRight="8dp"  
 android:layout\_marginBottom="8dp"  
 android:background="@drawable/btn\_bg"  
 android:drawableStart="@drawable/ic\_google"  
 android:drawableLeft="@color/colorPrimaryDark"  
 android:drawablePadding="10dp"  
 android:paddingLeft="20dp"  
 android:text="Google"  
 android:textAllCaps="false"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toStartOf="@+id/btnFaceBook"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/linearLayout"  
 app:layout\_constraintVertical\_bias="0.36" />  
  
 <Button  
 android:id="@+id/btnFaceBook"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="8dp"  
 android:layout\_marginLeft="8dp"  
 android:layout\_marginEnd="32dp"  
 android:layout\_marginRight="32dp"  
 android:background="@drawable/btn\_bg"  
 android:drawableStart="@drawable/ic\_facebook"  
 android:drawableLeft="@color/colorPrimaryDark"  
 android:drawablePadding="10dp"  
 android:paddingLeft="20dp"  
 android:text="Facebook"  
 android:textAllCaps="false"  
 app:layout\_constraintBottom\_toBottomOf="@+id/btnGoogle"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.5"  
 app:layout\_constraintStart\_toEndOf="@+id/btnGoogle"  
 app:layout\_constraintTop\_toTopOf="@+id/btnGoogle" />  
  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**FUNCTION CODE –**

public class LoginActivity extends AppCompatActivity implements View.OnClickListener  
{  
  
 private TextView signUp;  
 private EditText editTextEmail, editTextPassword;  
 private Button logIn;  
 private ProgressBar progressBar;  
  
 private FirebaseAuth mAuth;  
  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState)  
 {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_login*);  
  
 mAuth = FirebaseAuth.*getInstance*();  
  
 signUp = (TextView) findViewById(R.id.*textViewSignUp*);  
 signUp.setOnClickListener(this);  
  
 logIn = (Button) findViewById(R.id.*btnLogin*);  
 logIn.setOnClickListener(this);  
  
  
 editTextEmail = (EditText) findViewById(R.id.*inputEmail*);  
 editTextPassword = (EditText) findViewById(R.id.*inputPassword*);  
   
 // progressBar = (ProgressBar) findViewById(R.id.progressBar);  
  
 }  
  
 @Override  
 public void onClick(View v)  
 {  
 switch (v.getId())  
 {  
 case R.id.*textViewSignUp*:  
 startActivity(new Intent( this, RegisterActivity.class));

// register page linked here  
 break;  
  
 case R.id.*btnLogin*:  
 userLogin();  
 break;  
 }  
  
 }  
  
 private void userLogin()  
 {  
 String Email = editTextEmail.getText().toString().trim();  
 String Password = editTextPassword.getText().toString().trim();  
  
 if(Email.isEmpty())  
 {  
 editTextEmail.setError("Your email is invalid");  
 editTextEmail.requestFocus();  
 return;  
 }  
  
 if(Password.length() < 6)  
 {  
 editTextPassword.setError("Min password length is 6 characters");  
 editTextPassword.requestFocus();  
 return;  
 }  
  
 mAuth.signInWithEmailAndPassword(Email, Password).addOnCompleteListener(new OnCompleteListener<AuthResult>()  
 {  
 @Override  
 public void onComplete(@NonNull Task<AuthResult> task)  
 {  
 if(task.isSuccessful())  
 {  
 startActivity(new Intent(LoginActivity.this, FunctionActivity.class)); // function page linked here  
 }  
 else  
 {  
 Toast.*makeText*(LoginActivity.this, "Failed to Login! Please check your credentials", Toast.*LENGTH\_LONG*).show();  
 }  
  
 }  
 });  
  
  
 }  
}