2. Development of Hello World Application

MainActivity.java

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

activity_main.xml

```
<?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"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

3. Create An Application that takes the name, from a textbox, and shows hello message along with name entered in textbox, when the user clicks the OK button

MainActivity.java

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    private EditText nameEditText;
}
```

```
private Button okButton;
private TextView helloTextView;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    nameEditText = findViewById(R.id.name_edit_text);
    okButton = findViewById(R.id.ok_button);
    helloTextView = findViewById(R.id.hello_text_view);

    okButton.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            String name = nameEditText.getText().toString();
            helloTextView.setText("Hello, " + name);
        }
    });
}
```

Activitymain.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    android:orientation="vertical"
    tools:context=".MainActivity">

<EditText
    android:id="@+id/name_edit_text"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:hint="Enter your name"/>

<Button
    android:id="@+id/ok_button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_height="wrap_content"
    android:layout_width="wrap_content"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_height="wrap_content"</pre>
```

4. Create a screen that has input boxes for user name, password, address, gender(Radio Buttons for male and female), age (Numeric), DOB(Date Picket), State (Spinner), and a submit button. On clicking the submit button, print all the data below the submit button (Use any Layout)

MainActivity.java

```
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
   etUserName = findViewById(R.id.etUserName);
   etPassword = findViewById(R.id.etPassword);
   etAddress = findViewById(R.id.etAddress);
    rbFemale = findViewById(R.id.rbFemale);
        String password = etPassword.getText().toString();
        String address = etAddress.getText().toString();
```

Activitymain.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
   android:orientation="vertical">
       android:text="Password" />
   <EditText
       android:inputType="textPassword" />
   <TextView
```

```
android:id="@+id/rbMale"
       android:inputType="number" />
   <TextView
    <TextView
   <TextView
</LinearLayout>
```

Strings.xml

Mid Question:

Develop the registration form with the following UI components name, Email Id, Password, Confirm Password, Mobile Number, Gender and Register Button

MainActivity.java

```
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;

import android.widget.TextView;

import android.widget.TextView;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {
    private EditText etName, etEmail, etPassword, etConfirmPassword, etMobileNumber;
    private RadioGroup rgGender;
    private RadioGroup rgGender;
    private TextView tvOutput;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    etName = findViewById(R.id.et_name);
    etEmail = findViewById(R.id.et_mame);
    etConfirmPassword = findViewById(R.id.et_confirm_password);
    etConfirmPassword = findViewById(R.id.et_mobile_number);
    rgGender = findViewById(R.id.et_mobile_number);
    btnRegister = findViewById(R.id.btn_register);
    btnRegster = findViewById(R.id.btn_register);
    btnReset = findViewById(R.id.btn_reset);
    tvOutput = findViewById(R.id.tv_output);

btnRegister.setOnClickListener(new View.OnClickListener() {
    @Override
```

```
etConfirmPassword.getText().toString();
findViewById(selectedGenderId);
selectedGenderRadioButton.getText().toString();
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:id="@+id/main_layout"
   android:layout_width="match_parent"
   android:layout_height="match_parent"
   android:orientation="vertical"
   android:padding="16dp">

    <EditText
        android:id="@+id/et_name"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Name" />
```

```
<EditText
    android:inputType="textEmailAddress"
<EditText
<EditText
    android:inputType="textPassword"
    android:inputType="phone"
</RadioGroup>
```