



# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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## Experiment – 2.2

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Section/Group: NTPP\_601-A

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Subject Name: MAD Lab

Subject Code: 21CSH-355

**Aim:** Create an Android App using various controls such as EditText, CheckBox, RadioButton, RadioGroup, etc.

**Objective:-** The objective of an Android app using various controls such as EditText, CheckBox, RadioButton, and RadioGroup could be to create a user interface that involves user input, selection, and interaction with different types of controls. This type of app aims to showcase the usage and functionalities of these UI elements to enhance the user experience.

### CODE: 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="166dp"
        android:layout_height="98dp"
        android:text="HELLO World I am Shashi "

        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
```

```
app:layout_constraintStart_toStartOf="parent"  
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintVertical_bias="0.617" />
```

```
<EditText  
android:id="@+id/editTextExample"  
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
android:hint="Enter text"  
tools:layout_editor_absoluteX="0dp"  
tools:layout_editor_absoluteY="67dp" />  
<ImageView  
android:id="@+id/imageViewExample"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"  
android:src="@drawable/ic_launcher_foreground" />  
<CheckBox  
    android:id="@+id/checkboxExample"  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:text="Check me" />  
<Spinner  
android:id="@+id/spinnerExample"  
android:layout_width="match_parent"  
    android:layout_height="wrap_content" />
```

```
<ProgressBar  
android:id="@+id/progressBarExample"  
style="?android:attr/progressBarStyleHorizontal"  
android:layout_width="match_parent"  
android:layout_height="wrap_content"  
    android:progress="50" />
```

```
<Switch  
android:id="@+id/switchExample2"  
android:layout_width="wrap_content"  
android:layout_height="wrap_content"
```

```
        android:text="Switch me" />
    <ToggleButton
        android:id="@+id/toggleButtonExample"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textOn="ON"
        android:textOff="OFF" />
    <AutoCompleteTextView
        android:id="@+id/autoCompleteTextViewE
        xample"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Type here" />

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

## Java Code:-

```
import
android.support.v7.app.AppCompatActivity;
import android.os.Bundle; import
android.view.View; import
android.widget.CheckBox; import
android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    CheckBox ch, ch1, ch2, ch3;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        ch=(CheckBox)findViewById(R.id.checkBox);

        ch1=(CheckBox)findViewById(R.id.checkBox2);

        ch2=(CheckBox)findViewById(R.id.checkBox3);

        ch3=(CheckBox)findViewById(R.id.checkBox4);
```



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```
}  
public void Check(View v)  
  
{  
  
    String msg="";  
  
    if(ch.isChecked())  
  
        msg = msg + " Painting ";  
  
    if(ch1.isChecked())  
  
        msg = msg + " Reading ";  
  
    if(ch2.isChecked())  
  
        msg = msg + " Singing ";  
  
    if(ch3.isChecked())  
  
        msg = msg + " Cooking ";  
  
    Toast.makeText(this, msg + "are selected",  
  
        Toast.LENGTH_LONG).show();  
  
}  
  
}
```



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## OUTPUT:

Radio Buttons

Select your Subject ?

☐ DBMS

☒ C/C++ Programing

☐ Data Structure

☐ Algorithms

CLEAR

SUBMIT

C/C++ Programing

CheckBox

☐ Pizza

☐ Coffee

☐ Burger

ORDER

Selected Items:  
Coffe 50Rs  
Burger 120Rs  
Total: 170Rs

CheckBox

☐ Pizza

☒ Coffee

☒ Burger

ORDER

Selected Items:  
Coffe 50Rs  
Burger 120Rs  
Total: 170Rs



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## 2. Learning Outcomes:

- Successful USE of your Android development environment.
- Project Workspace.
- Configuration button Completion.
- How to add new Intent.