



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Discover. Learn. Empower.

Experiment – 5

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Branch: CSE

B Semester: 6th

Subject Name: MAD Lab

UID: 20BCS5951

Section: 20BCS_NTPP_DM_605-

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Subject Code: 20CSP-351

Aim:

Create an Android App using various controls such as TextEdit, CheckBox, RadioButton, RadioGroup, etc.

Objective:

Understand and analyze the specific requirement, possibilities and challenges when developing for a mobile application context.

System Requirement:

- Android Studio
- Java JDK5 or Above
- SDK
- JRE

Steps of Experiment:

The first step is to create a simple Android Application using Android studio.

Step 1: Create a New Project

Step 2: Start Writing Code in .xml & .java files

Source Code:

MainActivity.java

```
package com.example.myapplication;

import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

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);
    }
    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();
    }
}
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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="#0FFFFFFF"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <TextView
        android:id="@+id/textView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginEnd="8dp"
        android:layout_marginStart="8dp"
```

```
        android:layout_marginTop="30dp"
        android:text="Apps 20BCS5951 USES frequently :"
        android:textSize="24sp"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
    <CheckBox
        android:id="@+id/checkBox"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Swiggy"
        android:layout_marginTop="16dp"
        android:textSize="18sp" />
    <CheckBox
        android:id="@+id/checkBox2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Cuimms"
        android:layout_marginTop="16dp"
        android:textSize="18sp" />
    <CheckBox
        android:id="@+id/checkBox3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:text="Brave"
        android:textSize="18sp"
        app:layout_constraintTop_toTopOf="@+id/textView"
        tools:layout_editor_absoluteX="382dp" />

    <CheckBox
        android:id="@+id/checkBox4"
        android:layout_width="wrap_content"

        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:text="Youtube"
        android:textSize="18sp"
        app:layout_constraintTop_toBottomOf="@+id/checkBox"
        tools:layout_editor_absoluteX="386dp" />

    <Button
        android:id="@+id/button"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:onClick="Check"
        android:text="submit" />
</LinearLayout>
```

Running App on Emulator:

First ScreenShot:

