### Practical 11

### 1. Write a program to show 5 checkboxes and toast selected checkbox.

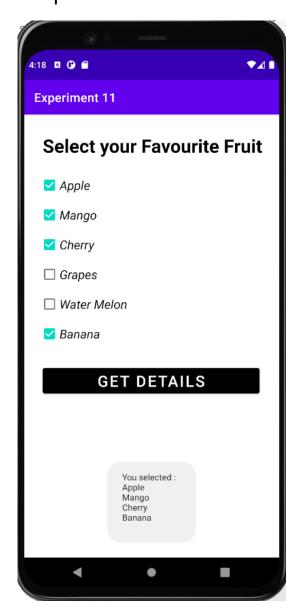
### XML Code:

```
android:textSize="20dp"
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
                                                             android:textStyle="italic"
                                                             android:textColor="@color/black"
xmlns:android="http://schemas.android.com/apk/res
/android"
                                                             />
  xmlns:app="http://schemas.android.com/apk/res-
                                                           <CheckBox
                                                             android:id="@+id/c4"
                                                             android:layout_width="wrap_content"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
                                                             android:layout height="wrap content"
  android:layout_height="match_parent"
                                                             android:layout_marginLeft="25dp"
  tools:context=".MainActivity"
                                                             android:text="Grapes"
                                                             android:textSize="20dp"
  android:orientation="vertical">
                                                             android:textStyle="italic"
  <TextView
    android:layout_width="wrap_content"
                                                             android:textColor="@color/black"
    android:layout_height="wrap_content"
                                                             />
    android:text="Select your Favourite Fruit"
                                                           <CheckBox
    android:textColor="@color/black"
                                                             android:id="@+id/c5"
    android:textSize="30dp"
                                                             android:layout_width="wrap_content"
    android:layout_marginLeft="30dp"
                                                             android:layout_height="wrap_content"
    android:layout_marginTop="30dp"
                                                             android:layout_marginLeft="25dp"
    android:textStyle="bold"
                                                             android:text="Water Melon"
     />
                                                             android:textSize="20dp"
                                                             android:textStyle="italic"
  <CheckBox
    android:id="@+id/c1"
                                                             android:textColor="@color/black"
    android:layout_width="wrap_content"
                                                             />
    android:layout height="wrap content"
                                                           <CheckBox
    android:layout_marginLeft="25dp"
                                                             android:id="@+id/c6"
    android:text="Apple"
                                                             android:layout_width="wrap_content"
    android:textSize="20dp"
                                                             android:layout_height="wrap_content"
    android:layout_marginTop="20dp"
                                                             android:layout_marginLeft="25dp"
    android:textStyle="italic"
                                                             android:text="Banana"
    android:textColor="@color/black"
                                                             android:textSize="20dp"
                                                             android:textStyle="italic"
    />
                                                             android:textColor="@color/black"
  <CheckBox
    android:id="@+id/c2"
                                                             />
    android:layout width="wrap content"
                                                           <Button
    android:layout height="wrap content"
                                                             android:id="@+id/btn"
    android:layout_marginLeft="25dp"
                                                             android:layout_width="350dp"
                                                             android:layout_height="wrap_content"
    android:text="Mango"
    android:textSize="20dp"
                                                             android:text="Get Details"
    android:textStyle="italic"
                                                             android:textColor="@color/white"
    android:textColor="@color/black"
                                                             android:backgroundTint="@color/black"
    />
                                                             android:textSize="25dp"
                                                             android:layout_marginTop="25dp"
  <CheckBox
    android:id="@+id/c3"
                                                             android:layout marginLeft="30dp"
                                                             android:gravity="center"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
                                                             />
    android:layout_marginLeft="25dp"
                                                        </LinearLayout>
    android:text="Cherry"
```

### Java Code:

```
package com.example.experiment11;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  Button btn;
  CheckBox c1,c2,c3,c4,c5,c6;
  String str;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    btn = (Button) findViewById(R.id.btn);
    c1 = (CheckBox) findViewById(R.id.c1);
    c2 = (CheckBox) findViewById(R.id.c2);
    c3 = (CheckBox) findViewById(R.id.c3);
    c4 = (CheckBox) findViewById(R.id.c4);
    c5 = (CheckBox) findViewById(R.id.c5);
    c6 = (CheckBox) findViewById(R.id.c6);
    btn.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         str="";
         if(c1.isChecked()){
            str += c1.getText().toString()+"\n";
         if(c2.isChecked()){
           str += c2.getText().toString()+"\n";
         if(c3.isChecked()){
           str += c3.getText().toString()+"\n";
         if(c4.isChecked()){
           str += c4.getText().toString()+"\n";
         if(c5.isChecked()){
           str += c5.getText().toString()+"\n";
         if(c6.isChecked()){
           str += c6.getText().toString()+"\n";
       Toast.makeText(getApplicationContext(),"You selected: \n"+str,Toast.LENGTH_LONG).show();
     });
  }
```

# Output:



Name : Aditya Choudhary Roll no : 19406 MAD Experiments

 Create the below form and on the selection of checkbox it should display message as Selected, when deselected it should display message as Deselected and on button click all the selected checkbox should be displayed.

#### Code:

```
<?xml version="1.0" encoding="utf-8"?>
                                                             android:id="@+id/c3"
                                                             android:layout_width="wrap_content"
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res
                                                             android:layout_height="wrap_content"
/android"
                                                             android:layout_marginLeft="25dp"
                                                             android:text="Android"
  xmlns:app="http://schemas.android.com/apk/res-
                                                             android:textSize="20dp"
auto"
  xmlns:tools="http://schemas.android.com/tools"
                                                             android:textStyle="italic"
  android:layout_width="match_parent"
                                                             android:textColor="@color/black"
  android:layout_height="match_parent"
                                                             android:onClick="checked"
  tools:context=".MainActivity"
                                                             tools:ignore="OnClick"/>
  android:orientation="vertical">
                                                           <CheckBox
                                                             android:id="@+id/c4"
  <TextView
    android:layout_width="wrap_content"
                                                             android:layout_width="wrap_content"
    android:layout_height="wrap_content"
                                                             android:layout_height="wrap_content"
    android:text=" Select your Favourite
                                                             android:layout marginLeft="25dp"
Programming Language"
                                                             android:text="Angular JS"
    android:textColor="@color/black"
                                                             android:textSize="20dp"
    android:textSize="30dp"
                                                             android:textStyle="italic"
    android:layout_marginLeft="30dp"
                                                             android:textColor="@color/black"
    android:layout_marginTop="30dp"
                                                             android:onClick="checked"
    android:textStyle="bold"
                                                             tools:ignore="OnClick"/>
                                                           <CheckBox
  <CheckBox
                                                             android:id="@+id/c5"
    android:id="@+id/c1"
                                                             android:layout_width="wrap_content"
    android:layout_width="wrap_content"
                                                             android:layout_height="wrap_content"
    android:layout_height="wrap_content"
                                                             android:layout_marginLeft="25dp"
                                                             android:text="React JS"
    android:layout_marginLeft="25dp"
    android:text="Java"
                                                             android:textSize="20dp"
    android:textSize="20dp"
                                                             android:textStyle="italic"
                                                             android:textColor="@color/black"
    android:layout marginTop="20dp"
    android:textStyle="italic"
                                                             android:onClick="checked"
    android:textColor="@color/black"
                                                             tools:ignore="OnClick"
    android:onClick="checked"
                                                             />
    tools:ignore="OnClick"/>
                                                           <Button
  <CheckBox
                                                             android:id="@+id/btn"
    android:id="@+id/c2"
                                                             android:layout_width="350dp"
                                                             android:layout_height="wrap_content"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
                                                             android:text="Get Details"
                                                             android:textColor="@color/white"
    android:layout marginLeft="25dp"
    android:text="Python"
                                                             android:backgroundTint="@color/black"
    android:textSize="20dp"
                                                             android:textSize="25dp"
    android:textStyle="italic"
                                                             android:layout_marginTop="25dp"
    android:textColor="@color/black"
                                                             android:layout_marginLeft="30dp"
    android:onClick="checked"
                                                             android:gravity="center"
    tools:ignore="OnClick"/>
                                                             />
  <CheckBox
                                                        </LinearLayout>
```

### Java Code:

```
package com.example.experiment11;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;
public class MainActivity2 extends AppCompatActivity {
  Button btn;
  CheckBox c1,c2,c3,c4,c5,c6;
  String str,result;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     setContentView(R.layout.activity main2);
     btn = (Button) findViewById(R.id.btn);
     c1 = (CheckBox) findViewById(R.id.c1);
     c2 = (CheckBox) findViewById(R.id.c2);
     c3 = (CheckBox) findViewById(R.id.c3);
     c4 = (CheckBox) findViewById(R.id.c4);
     c5 = (CheckBox) findViewById(R.id.c5);
     btn.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         str="";
         if(c1.isChecked()){
            str += c1.getText().toString()+"\n";
         if(c2.isChecked()){
            str += c2.getText().toString()+"\n";
         if(c3.isChecked()){
            str += c3.getText().toString()+"\n";
         if(c4.isChecked()){
            str += c4.getText().toString()+"\n";
         if(c5.isChecked()){
            str += c5.getText().toString()+"\n";
         Toast.makeText(getApplicationContext(),"You selected: \n"+str,Toast.LENGTH_LONG).show();
     });
  public void checked(View view1)
     boolean checked = ((CheckBox)view1).isChecked();
     String result = "";
     switch (view1.getId()){
       case R.id.c1:
         result = checked? "Java is Selected": "Java is Deselected";
         break;
```

#### Name: Aditya Choudhary Roll no: 19406 **MAD Experiments** case R.id.c2: result = checked? "Python is Selected": "Python is Deselected"; break; case R.id.c3: result = checked ? "Android is Selected" : "Android is Deselected"; break; case R.id.c4: result = checked? "Angular JS is Selected": "angular JS is Deselected"; break; case R.id.c5: result = checked? "React JS is Selected": "React JS is Deselected"; break; Toast.makeText(this, result, Toast.LENGTH\_SHORT).show(); }

## Output:







Name: Aditya Choudhary Roll no: 19406 MAD Experiments

3. Write a Program to create the below form and on the click of Ok button it should display the text of the checkbox and on Cancel button it should deselect the selected checkbox

#### Code:

```
<?xml version="1.0" encoding="utf-8"?>
                                                             android:textSize="20dp"
                                                             android:textStyle="italic"
<LinearLayout
xmlns:android="http://schemas.android.com/apk/res
                                                             android:textColor="@color/black"
/android"
                                                             />
  xmlns:app="http://schemas.android.com/apk/res-
                                                           <LinearLayout
auto"
                                                             android:layout_width="wrap_content"
                                                             android:layout_height="wrap_content"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
                                                             android:orientation="horizontal">
  android:layout_height="match_parent"
                                                           <Button
  tools:context=".MainActivity3"
                                                             android:id="@+id/btn1"
  android:orientation="vertical">
                                                             android:layout_width="100dp"
                                                             android:layout_height="70dp"
  <ImageView
    android:layout_width="wrap_content"
                                                             android:text="OK"
    android:layout_height="300dp"
                                                             android:textColor="@color/white"
    android:src="@drawable/img"
                                                             android:backgroundTint="@color/black"
    android:scaleType="fitStart"
                                                             android:textSize="25dp"
    android:layout_marginTop="20dp"
                                                             android:layout_marginTop="25dp"
                                                             android:layout marginLeft="30dp"
    />
                                                             android:gravity="center"
  <CheckBox
    android:id="@+id/c1"
    android:layout_width="wrap_content"
                                                             <Button
    android:layout_height="wrap_content"
                                                               android:id="@+id/btn2"
    android:layout marginLeft="25dp"
                                                               android:layout width="150dp"
    android:text="Do you like Java??"
                                                               android:layout height="70dp"
    android:textSize="20dp"
                                                               android:text="Cancel"
    android:textStyle="italic"
                                                               android:textColor="@color/white"
    android:textColor="@color/black"
                                                               android:backgroundTint="@color/black"
                                                               android:textSize="25dp"
     />
  <CheckBox
                                                               android:layout_marginTop="25dp"
    android:id="@+id/c2"
                                                               android:layout_marginLeft="80dp"
    android:layout_width="wrap_content"
                                                               android:gravity="center"
    android:layout height="wrap content"
                                                               />
    android:layout_marginLeft="25dp"
                                                           </LinearLayout>
    android:text="Do you like Python??"
                                                        </LinearLayout>
```

# Java code:

```
package com.example.experiment11;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.Toast;
public class MainActivity3 extends AppCompatActivity {
  Button btn1,btn2;
  CheckBox c1,c2;
  String str;
```

```
Name: Aditya Choudhary
                                              Roll no: 19406
                                                                                MAD Experiments
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main3);
    btn1 = (Button) findViewById(R.id.btn1);
    btn2 = (Button) findViewById(R.id.btn2);
    c1 = (CheckBox) findViewById(R.id.c1);
    c2 = (CheckBox) findViewById(R.id.c2);
    btn1.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View view) {
         str="";
         if(c1.isChecked()){
           str += c1.getText().toString()+"\n";}
         if(c2.isChecked()) {
           str += c2.getText().toString() + "\n";}
         Toast.makeText(getApplicationContext(),"You selected: \n"+str,Toast.LENGTH_LONG).show();
    btn2.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View view) {
         c1.setChecked(false);
         c2.setChecked(false);}
 });}
```

### Output:

}



