

Practical 11

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

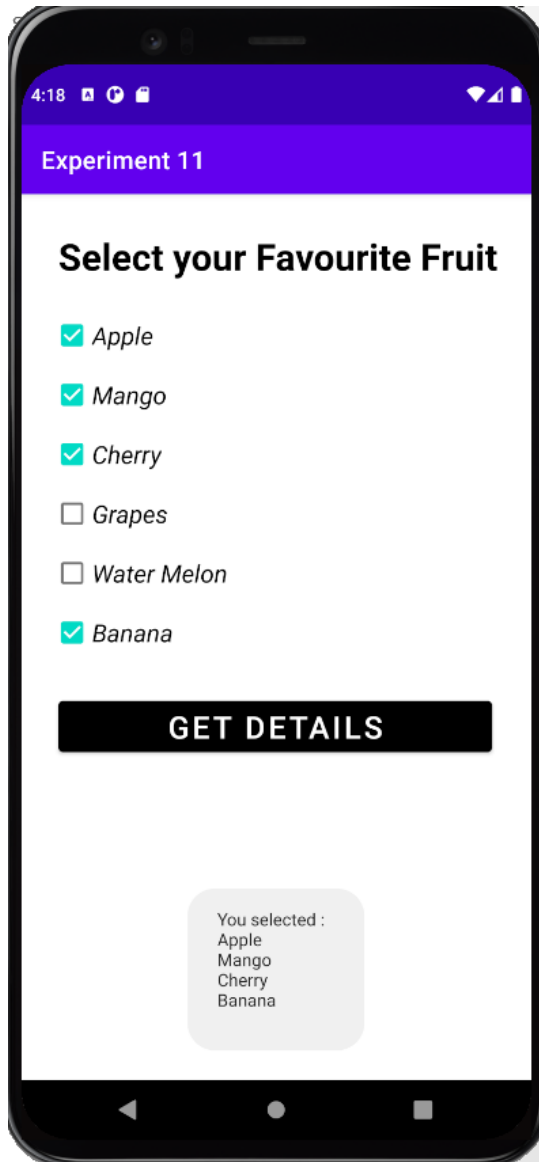
XML Code :

```
<?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"
    tools:context=".MainActivity"
    android:orientation="vertical">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select your Favourite Fruit"
        android:textColor="@color/black"
        android:textSize="30dp"
        android:layout_marginLeft="30dp"
        android:layout_marginTop="30dp"
        android:textStyle="bold"
    />
    <CheckBox
        android:id="@+id/c1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="25dp"
        android:text="Apple"
        android:textSize="20dp"
        android:layout_marginTop="20dp"
        android:textStyle="italic"
        android:textColor="@color/black"
    />
    <CheckBox
        android:id="@+id/c2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="25dp"
        android:text="Mango"
        android:textSize="20dp"
        android:textStyle="italic"
        android:textColor="@color/black"
    />
    <CheckBox
        android:id="@+id/c3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="25dp"
        android:text="Cherry"
        android:textSize="20dp"
        android:textStyle="italic"
        android:textColor="@color/black"
    />
    <CheckBox
        android:id="@+id/c4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="25dp"
        android:text="Grapes"
        android:textSize="20dp"
        android:textStyle="italic"
        android:textColor="@color/black"
    />
    <CheckBox
        android:id="@+id/c5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="25dp"
        android:text="Water Melon"
        android:textSize="20dp"
        android:textStyle="italic"
        android:textColor="@color/black"
    />
    <CheckBox
        android:id="@+id/c6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="25dp"
        android:text="Banana"
        android:textSize="20dp"
        android:textStyle="italic"
        android:textColor="@color/black"
    />
    <Button
        android:id="@+id/btn"
        android:layout_width="350dp"
        android:layout_height="wrap_content"
        android:text="Get Details"
        android:textColor="@color/white"
        android:backgroundTint="@color/black"
        android:textSize="25dp"
        android:layout_marginTop="25dp"
        android:layout_marginLeft="30dp"
        android:gravity="center"
    />
</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 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 :



2. 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"?>
<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"
tools:context=".MainActivity"
android:orientation="vertical">
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text=" Select your Favourite
Programming Language"
    android:textColor="@color/black"
    android:textSize="30dp"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="30dp"
    android:textStyle="bold"
/>
<CheckBox
    android:id="@+id/c1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="25dp"
    android:text="Java"
    android:textSize="20dp"
    android:layout_marginTop="20dp"
    android:textStyle="italic"
    android:textColor="@color/black"
    android:onClick="checked"
    tools:ignore="OnClick" />
<CheckBox
    android:id="@+id/c2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="25dp"
    android:text="Python"
    android:textSize="20dp"
    android:textStyle="italic"
    android:textColor="@color/black"
    android:onClick="checked"
    tools:ignore="OnClick" />
<CheckBox
```

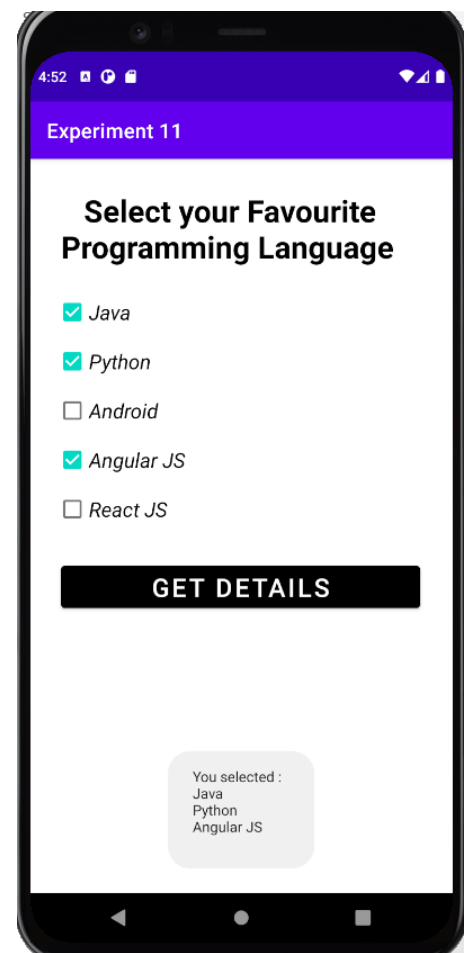
```
    android:id="@+id/c3"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="25dp"
    android:text="Android"
    android:textSize="20dp"
    android:textStyle="italic"
    android:textColor="@color/black"
    android:onClick="checked"
    tools:ignore="OnClick" />
<CheckBox
    android:id="@+id/c4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="25dp"
    android:text="Angular JS"
    android:textSize="20dp"
    android:textStyle="italic"
    android:textColor="@color/black"
    android:onClick="checked"
    tools:ignore="OnClick" />
<CheckBox
    android:id="@+id/c5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="25dp"
    android:text="React JS"
    android:textSize="20dp"
    android:textStyle="italic"
    android:textColor="@color/black"
    android:onClick="checked"
    tools:ignore="OnClick"
/>
<Button
    android:id="@+id/btn"
    android:layout_width="350dp"
    android:layout_height="wrap_content"
    android:text="Get Details"
    android:textColor="@color/white"
    android:backgroundTint="@color/black"
    android:textSize="25dp"
    android:layout_marginTop="25dp"
    android:layout_marginLeft="30dp"
    android:gravity="center"
/>
</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;
        }
    }
}
```

```
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:



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"?>
<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"
tools:context=".MainActivity3"
android:orientation="vertical">
<ImageView
    android:layout_width="wrap_content"
    android:layout_height="300dp"
    android:src="@drawable/img"
    android:scaleType="fitStart"
    android:layout_marginTop="20dp"
/>
<CheckBox
    android:id="@+id/c1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="25dp"
    android:text="Do you like Java??"
    android:textSize="20dp"
    android:textStyle="italic"
    android:textColor="@color/black"
/>
<CheckBox
    android:id="@+id/c2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginLeft="25dp"
    android:text="Do you like Python??"
    android:textSize="20dp"
    android:textStyle="italic"
    android:textColor="@color/black"
/>
</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;
```

```
@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:

