**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 :

Graphical user interface, application, Word

Description automatically generated

1. 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:

Graphical user interface, application

Description automatically generatedGraphical user interface, application, Word

Description automatically generatedGraphical user interface, text, application, Word

Description automatically generated

1. 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

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<Button

android:id="@+id/btn1"

android:layout\_width="100dp"

android:layout\_height="70dp"

android:text="OK"

android:textColor="@color/white"

android:backgroundTint="@color/black"

android:textSize="25dp"

android:layout\_marginTop="25dp"

android:layout\_marginLeft="30dp"

android:gravity="center"

/>

<Button

android:id="@+id/btn2"

android:layout\_width="150dp"

android:layout\_height="70dp"

android:text="Cancel"

android:textColor="@color/white"

android:backgroundTint="@color/black"

android:textSize="25dp"

android:layout\_marginTop="25dp"

android:layout\_marginLeft="80dp"

android:gravity="center"

/>

</LinearLayout>

</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:

Graphical user interface

Description automatically generated with medium confidence Graphical user interface, text

Description automatically generated