**Practical 15**

1. Write a Program to create two buttons as “Simple Toast” and “Custom Toast” on click of Simple Toast normal toast must be displayed and on click of Custom toast button a message with an image must be displayed.

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"

>

<Button

android:layout\_width="300dp"

android:layout\_height="80dp"

android:text="Simple Toast"

android:textSize="30dp"

android:backgroundTint="@color/black"

android:layout\_gravity="center"

android:layout\_marginTop="100dp"

android:id="@+id/btn1"

/>

<Button

android:layout\_width="300dp"

android:layout\_height="80dp"

android:text="Custom Toast"

android:textSize="30dp"

android:backgroundTint="@color/black"

android:layout\_gravity="center"

android:layout\_marginTop="40dp"

android:id="@+id/btn2"

/>

</LinearLayout>

Custom toast 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="280dp"

android:layout\_height="160dp"

tools:context=".exp15a"

android:orientation="vertical"

android:id="@+id/custom\_toast"

android:backgroundTint="@color/black"

android:background="@color/black"

>

<ImageView

android:layout\_width="100dp"

android:layout\_height="100dp"

android:src="@drawable/img"

android:layout\_gravity="center"

android:layout\_marginTop="5dp"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="This is Custom Toast"

android:textSize="25dp"

android:layout\_gravity="center"

android:layout\_marginTop="10dp"

android:textColor="@color/white"

android:layout\_marginBottom="10dp"

/>

</LinearLayout>

Java Code :

package com.example.exp15;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button simpletoast = (Button) findViewById(R.id.btn1);

Button customtoast = (Button) findViewById(R.id.btn2);

simpletoast.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

Toast.makeText(getApplicationContext(), "This is simple toast", Toast.LENGTH\_LONG).show();

}

});

customtoast.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

LayoutInflater inflater = getLayoutInflater();

View object = inflater.inflate(R.layout.activity\_exp15a, (ViewGroup) findViewById(R.id.custom\_toast));

Toast toast = new Toast(getApplicationContext());

toast.setDuration(toast.LENGTH\_LONG);

toast.setView(object);

toast.show();

}

});

}

}

Output:

Graphical user interface, text, application

Description automatically generated Graphical user interface, text, application

Description automatically generated

1. Write a Program to display three checkboxes and one button named “Order” as shown below. Once your click on button it should display simple toast along with items name and total price. Display custom toast on selection of 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=".MainActivity2"

android:orientation="vertical">

<CheckBox

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Pizza"

android:textSize="25dp"

android:layout\_gravity="center"

android:layout\_marginTop="80dp"

android:id="@+id/pizza"

android:onClick="custm"

/>

<CheckBox

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Coffee"

android:textSize="25dp"

android:layout\_gravity="center"

android:layout\_marginTop="10dp"

android:id="@+id/coffee"

android:onClick="custm"

/>

<CheckBox

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Burger"

android:textSize="25dp"

android:layout\_gravity="center"

android:layout\_marginTop="10dp"

android:id="@+id/burger"

android:onClick="custm"

/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Order"

android:backgroundTint="@color/black"

android:textColor="@color/white"

android:textSize="30dp"

android:layout\_gravity="center"

android:layout\_marginTop="20dp"

android:id="@+id/btn"

/>

</LinearLayout>

Custom toast 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="wrap\_content"

android:layout\_height="150dp"

tools:context=".exp15b"

android:orientation="vertical"

android:backgroundTint="@color/black"

android:background="@color/black"

android:id="@+id/pizz">

<ImageView

android:layout\_width="100dp"

android:layout\_height="100dp"

android:layout\_gravity="center"

android:layout\_marginTop="10dp"

android:id="@+id/item"

/>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="22dp"

android:textColor="@color/white"

android:layout\_gravity="center"

android:layout\_marginTop="7dp"

android:id="@+id/item\_text"

/>

</LinearLayout>

Java Code :

package com.example.exp15;

import androidx.appcompat.app.AppCompatActivity;

import android.media.Image;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.ImageView;

import android.widget.TextView;

import android.widget.Toast;

import org.w3c.dom.Text;

public class MainActivity2 extends AppCompatActivity {

String str,result;

Integer tot;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

CheckBox c1 = (CheckBox) findViewById(R.id.pizza);

CheckBox c2 = (CheckBox) findViewById(R.id.coffee);

CheckBox c3 = (CheckBox) findViewById(R.id.burger);

Button order = (Button) findViewById(R.id.btn);

order.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

str = "You Selected : \n";

tot = 0;

if(c1.isChecked()){

Integer p1 = 10;

tot += p1;

str += c1.getText().toString()+" : $"+p1+"\n";

}

if(c2.isChecked()){

Integer p2 = 5;

tot += p2;

str += c2.getText().toString()+" : $"+p2+"\n";

}

if(c3.isChecked()){

Integer p3 = 8;

tot+=p3;

str+=c3.getText().toString()+" : $"+p3+"\n";

}

str+="Total : $"+tot;

Toast.makeText(getApplicationContext(), str, Toast.LENGTH\_SHORT).show();

}

});

}

public void custm(View view) {

boolean checked = ((CheckBox)view).isChecked();

result="";

LayoutInflater inflater = getLayoutInflater();

View object = inflater.inflate(R.layout.activity\_exp15b, (ViewGroup) findViewById(R.id.pizz));

ImageView item = (ImageView) object.findViewById(R.id.item);

TextView item\_txt = (TextView) object.findViewById(R.id.item\_text);

switch (view.getId()){

case R.id.pizza:

result = checked ? "Pizza is added to your cart ":"Pizza is removed from your cart";

item.setImageResource(R.drawable.img\_1);

break;

case R.id.coffee:

result = checked ? "Coffee is added to your cart":"Coffee is removed from your cart";

item.setImageResource(R.drawable.coffee);

break;

case R.id.burger:

result = checked ? "Burger is added to your cart ":"Burger is removed from your cart";

item.setImageResource(R.drawable.img\_2);

break;

}

item\_txt.setText(result);

Toast toast = new Toast(getApplicationContext());

toast.setDuration(toast.LENGTH\_LONG);

toast.setView(object);

toast.show();

}

}

Output:

Graphical user interface, application

Description automatically generatedA screenshot of a computer

Description automatically generated with medium confidence

Graphical user interface, application

Description automatically generatedGraphical user interface

Description automatically generated