

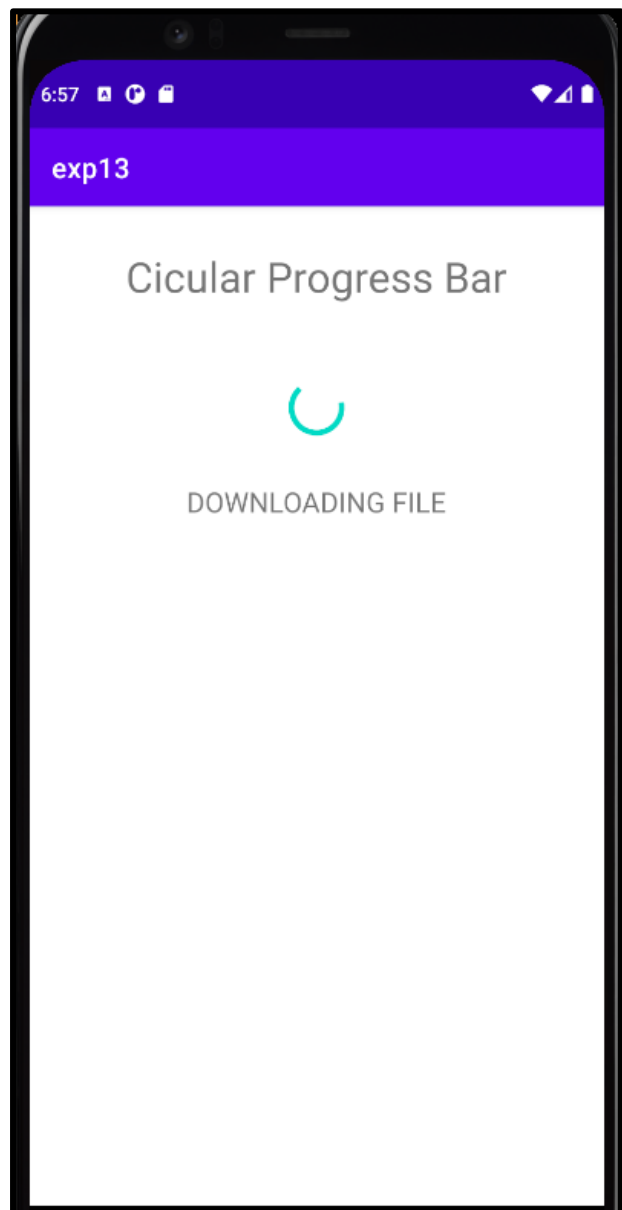
## Practical 13

### 1. Write a Program to display circular progress bar

#### Xml Code :

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:orientation="vertical" >
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Cicular Progress Bar"
        android:textSize="30sp"
        android:layout_gravity="center"
        android:layout_marginTop="30dp"
    />
    <ProgressBar
        android:indeterminate="false"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="50dp"
    />
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textSize="20sp"
        android:text="DOWNLOADING FILE"
        android:layout_gravity="center"
        android:layout_marginTop="30dp"
    />
</LinearLayout>
```

#### Output:



## 2. Write a Program to display the following output.

### Xml Code :

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btn"
        android:layout_marginTop="100dp"
        android:backgroundTint="@color/black"
        android:layout_gravity="center"
        android:text="Download File"
        android:textSize="30dp"
        android:padding="10dp"
    />
</LinearLayout>
```

### Java Code :

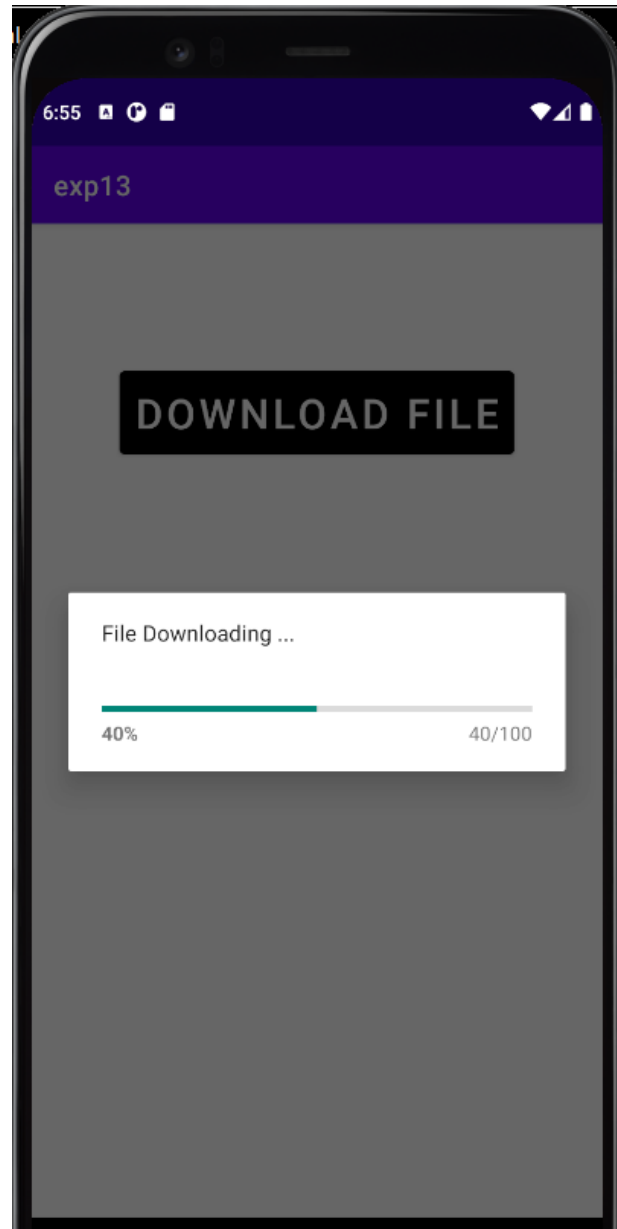
```
package com.example.exp13;
import androidx.appcompat.app.AppCompatActivity;
import android.app.ProgressDialog;
import android.os.Bundle;
import android.os.Handler;
import android.view.View;
import android.widget.Button;
public class MainActivity2 extends AppCompatActivity {
    Button btnStartProgress;
    ProgressDialog progressBar;
    private int progressBarStatus = 0;
    private Handler progressBarHandler = new Handler();
    private long fileSize = 0;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        addProgressBarOnButtonClick();
    }
    public void addProgressBarOnButtonClick() {
        btnStartProgress = findViewById(R.id.btn);
        btnStartProgress.setOnClickListener(new View.OnClickListener(){
            @Override
            public void onClick(View v) {
                progressBar = new ProgressDialog(v.getContext());
                progressBar.setCancelable(true);
                progressBar.setMessage("File Downloading ...");
                progressBar.setProgressStyle(ProgressDialog.STYLE_HORIZONTAL);
                progressBar.setProgress(0);
```

```
progressBar.setMax(100);
progressBar.show();
progressBarStatus = 0;
fileSize = 0;
new Thread(new Runnable() {
    public void run() {
        while (progressBarStatus < 100) {
            progressBarStatus = doOperation();
            try
            {
                Thread.sleep(1000);
            } catch (InterruptedException e)
            {
                e.printStackTrace();
            }
            progressBarHandler.post(new Runnable() {
                public void run() {
                    progressBar.setProgress(progressBarStatus);
                }
            });
        }
        if (progressBarStatus >= 100) {
            try {
                Thread.sleep(1000);
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
            progressBar.dismiss();
        }
    }
}).start();
});
}

public int doOperation() {
    while (fileSize <= 100000) {
        fileSize++;
        if (fileSize == 10000) {
            return 10;
        }
        else if (fileSize == 20000) {
            return 20;
        }
        else if (fileSize == 30000) {
            return 30;
        }
        else if (fileSize == 40000) {
            return 40;
        }
        else if (fileSize == 50000) {
            return 50;
        }
        else if (fileSize == 60000) {
            return 60;
        }
    }
}
```

```
        else if (fileSize == 70000) {  
            return 70;  
        }  
    }  
    return 100;  
}  
}
```

Output:



## Practical 14

1. Write a Program to display the following output.

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:gravity="center"
    android:orientation="vertical"
    android:background="@color/black"
    >
    <ListView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/list1"
        android:divider="@color/white"
        android:dividerHeight="3dp"
        android:listSelector="#00008B"
    />
</LinearLayout>
```

Activity\_listview.xml Code :

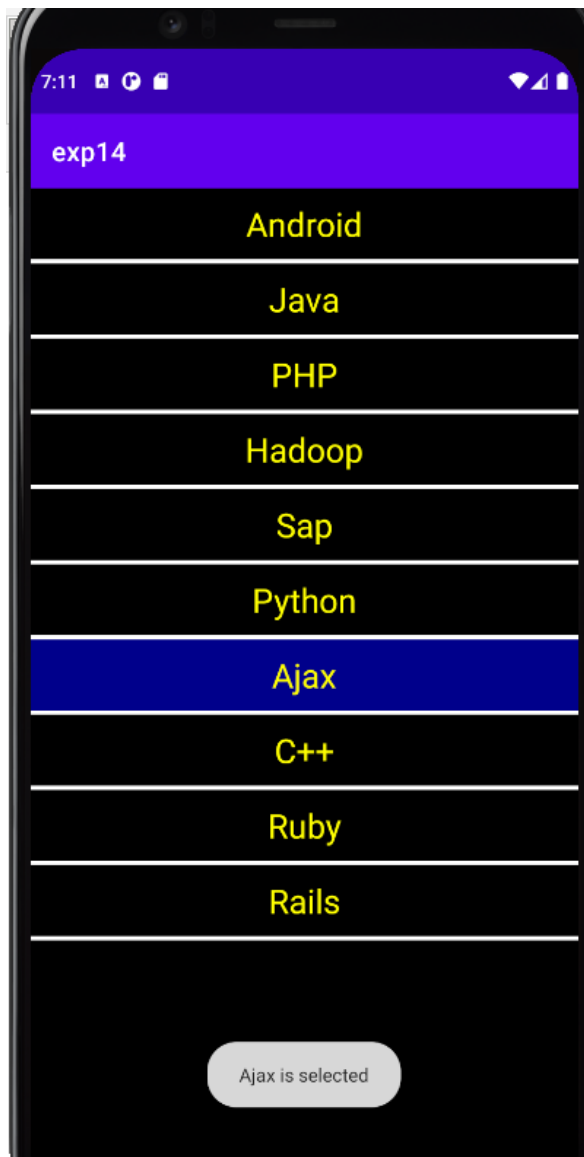
```
<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/txtview"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_gravity="center"
    android:gravity="center"
    android:padding="10dp"
    android:textSize="25dp"
    android:textColor="#FFFF00"
    >
</TextView>
```

Java Code :

```
package com.example.exp14;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        final String[] items =  
{"Android","Java","PHP","Hadoop","Sap","Python","Ajax","C++","Ruby","Rails"};  
        ArrayAdapter arrayAdapter = new ArrayAdapter<String>(this,R.layout.activity_listview,items);  
        ListView l1 = (ListView) findViewById(R.id.list1);  
        l1.setAdapter(arrayAdapter);  
        l1.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
            @Override  
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {  
                Toast.makeText(getApplicationContext(), ((TextView)view).getText() + " is selected",  
Toast.LENGTH_LONG).show();  
            }  
        });  
    }  
}
```

## Output:



## 2. Write a Program to create a Grid View and display the name of different phones and operating system and toast selected Phone.

### 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">
    <GridView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/gview"
        android:padding="10dp"
        android:numColumns="3"
        android:listSelector="@color/purple_200"
        android:horizontalSpacing="10sp"
        android:verticalSpacing="10sp"
        android:layout_marginTop="30dp"/>
</LinearLayout>
```

### Activity\_grid\_view.xml Code :

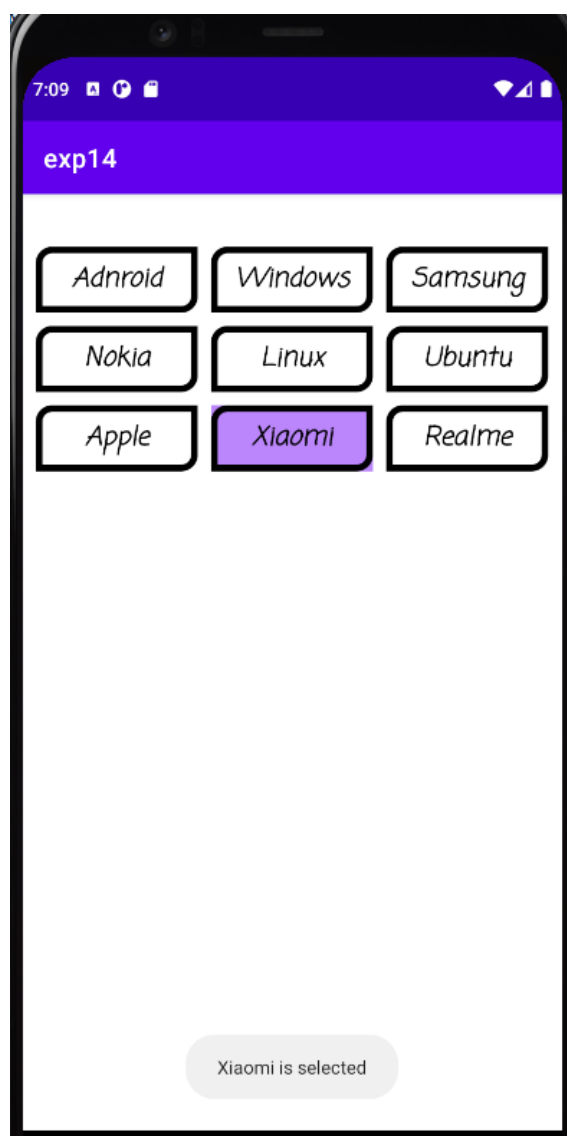
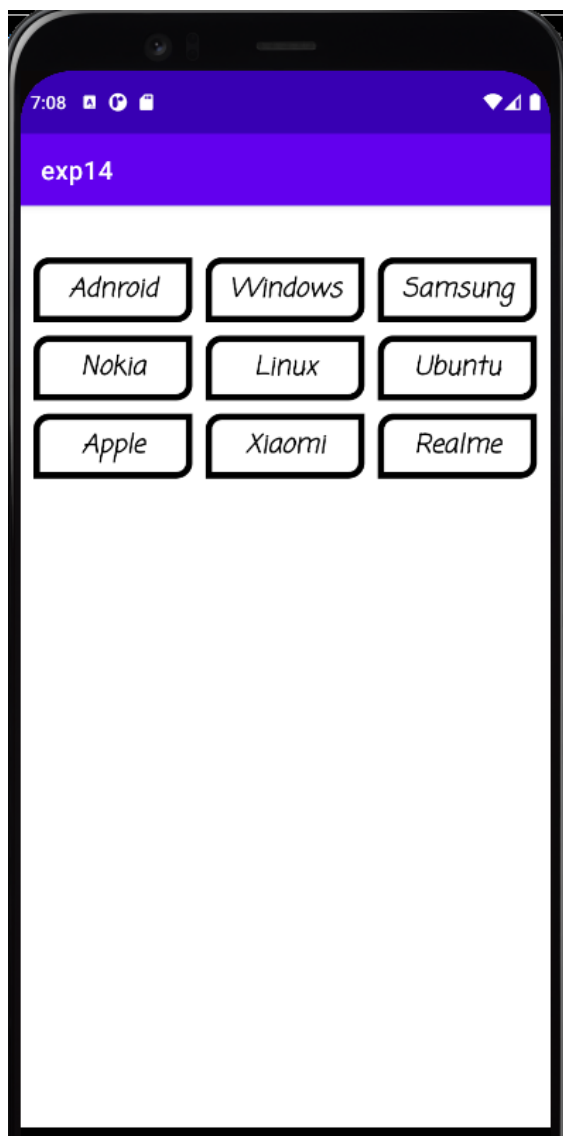
```
<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:id="@+id/tview"
    android:fontFamily="casual"
    android:gravity="center"
    android:padding="10dp"
    android:textSize="20dp"
    android:textStyle="italic|bold"
    android:textColor="@color/black"
    android:background="@drawable/bg"
    >
</TextView>
```

### Java Code :

```
package com.example.exp14;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.GridView;
import android.widget.TextView;
import android.widget.Toast;
```

```
public class MainActivity2 extends AppCompatActivity {  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main2);  
        final String[] OS =  
{"Adnroid","Windows","Samsung","Nokia","Linux","Ubuntu","Apple","Xiaomi","Realme"};  
        ArrayAdapter arrayAdapter = new ArrayAdapter<String>(this, R.layout.activity_grid_view, OS);  
        GridView gv = (GridView) findViewById(R.id.gview);  
        gv.setAdapter(arrayAdapter);  
        gv.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
            @Override  
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {  
                Toast.makeText(getApplicationContext(),((TextView)view).getText() + " is  
selected",Toast.LENGTH_LONG).show();  
            }  
        });  
    }  
}
```

## Output:





## 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"
```

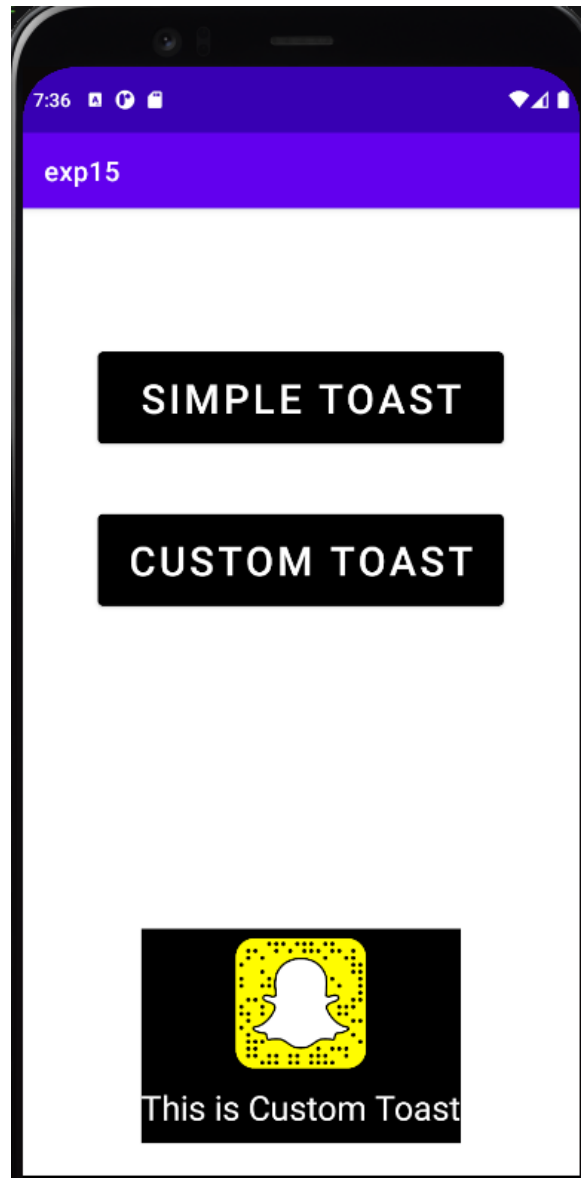
```
    android:backgroundTint="@color/black"
    android:background="@color/black"
    >
    <ImageView
        android:layout_width="100dp"
        android:layout_height="100dp"
        android:src="@drawable/img"
        android:layout_gravity="center"
        android:layout_marginTop="5dp"
    />
    <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:



2. Write a Program to display three checkboxes and one button named "Order" as shown below. Once you 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>
```

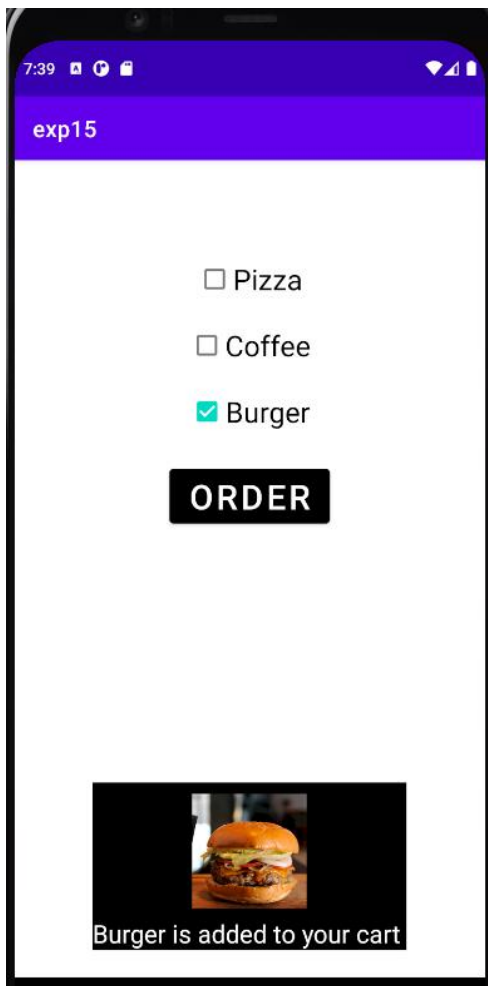
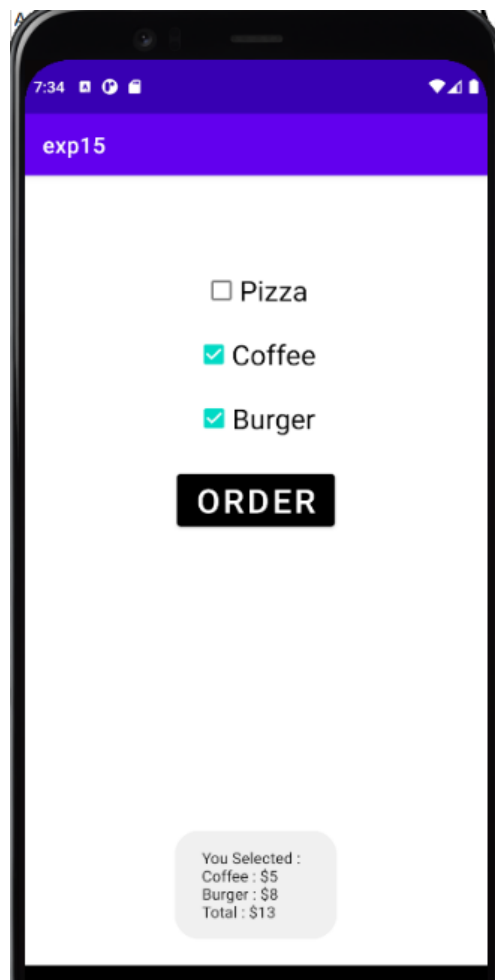
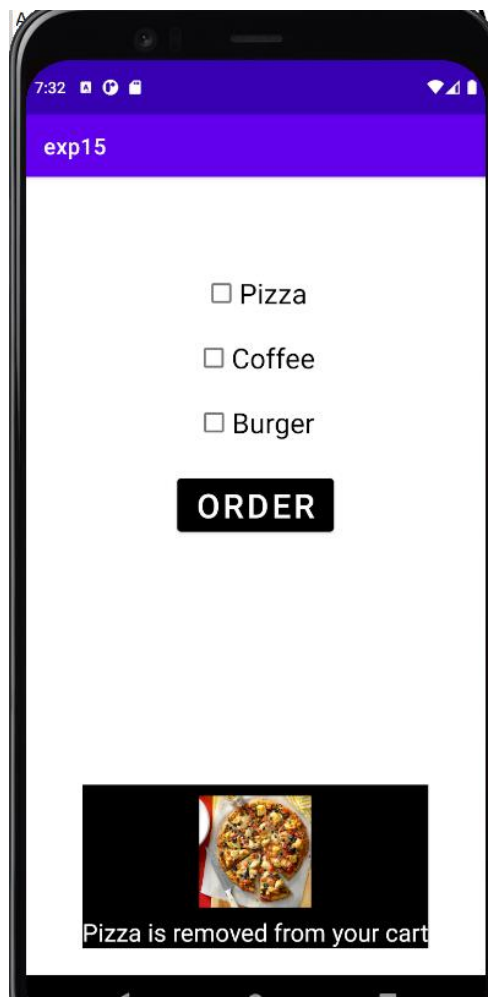
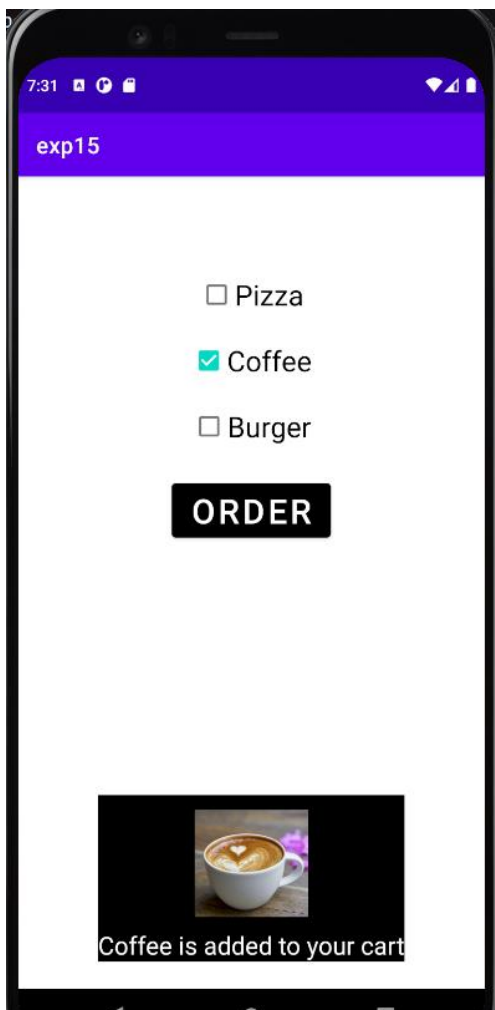
## Java Code :

```
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:**



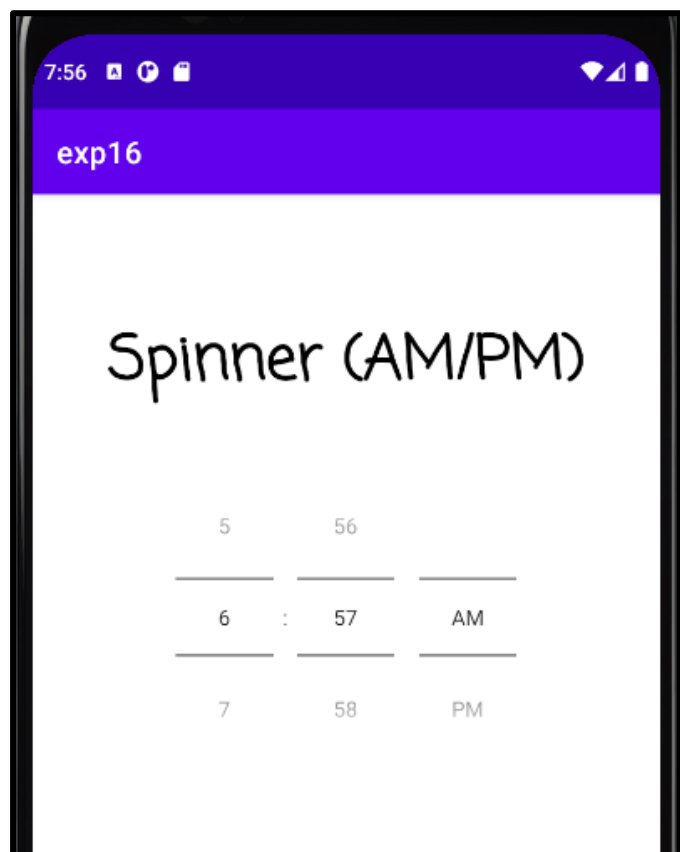
## Practical 16

1. Write a Program to display the time picker in spinner mode.

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_marginTop="80dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Spinner (AM/PM)"
        android:textSize="40dp"
        android:textStyle="bold"
        android:fontFamily="casual"
        android:textColor="@color/black"
        android:layout_gravity="center"
    />
    <TimePicker
        android:id="@+id/timepik1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:timePickerMode="spinner"
        android:layout_gravity="center"
        android:layout_marginTop="30dp" />
</LinearLayout>
```

Output:





## 2. Write a Program to display time picker in 24 hours format in spinner mode.

### 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_marginTop="80dp"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Spinner 24 Hours Format"
        android:textSize="30dp"
        android:textStyle="bold"
        android:fontFamily="casual"
        android:textColor="@color/black"
        android:layout_gravity="center"
    />
    <TimePicker
        android:id="@+id/t2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:timePickerMode="spinner"
        android:layout_gravity="center"
        android:layout_marginTop="30dp"/>
</LinearLayout>
```

### Java Code :

```
package com.example.exp16;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.widget.TimePicker;
public class MainActivity2 extends AppCompatActivity
{
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        TimePicker tp1 = (TimePicker)
        findViewById(R.id.t2);
        tp1.setIs24HourView(true);
    }
}
```

### Output:



3. Write a Program to display the following output. Select and display date and time on click of "select date" and "select time" buttons respectively.

Xml Code :

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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"
    >
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Date and Time picker"
        android:textSize="40dp"
        android:gravity="center"
        android:layout_marginTop="30dp"
        android:textColor="@color/black"
        android:id="@+id/txt"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25dp"
        android:textColor="@color/black"
        android:layout_below="@id/txt"
        android:layout_marginTop="50dp"
        android:layout_marginLeft="15dp"
        android:id="@+id/datetextview"
    />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="25dp"
        android:textColor="@color/black"
        android:layout_below="@id/datetextview"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="15dp"
        android:id="@+id/timetextview"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select Date"
        android:textSize="20dp"
        android:layout_toRightOf="@id/datetextview"
        android:layout_marginTop="135dp"
        android:layout_marginLeft="10dp"
        android:backgroundTint="@color/black"
```

```
        android:id="@+id/datebutton"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select Time"
        android:textSize="20dp"
        android:layout_toRightOf="@id/timetextview"
        android:layout_marginTop="205dp"
        android:layout_marginLeft="10dp"
        android:backgroundTint="@color/black"
        android:layout_alignBottom="@id/timetextview"
        android:id="@+id/timebutton"
    />
</RelativeLayout>
```

## Java Code :

```
package com.example.exp16;
import androidx.appcompat.app.AppCompatActivity;
import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.os.Bundle;
import android.text.format.DateFormat;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.TimePicker;
import java.util.Calendar;
public class MainActivity3 extends AppCompatActivity {
    Button date,time;
    EditText dtext,ttext;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main3);
        date = (Button) findViewById(R.id.datebutton);
        time = (Button) findViewById(R.id.timebutton);
        dtext = (EditText) findViewById(R.id.datetextview);
        ttext = (EditText) findViewById(R.id.timetextview);
        date.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                dispdate();
            }
        });
        time.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                disptime();
            }
        });
    }
}
```

```
public void dispdate(){
    Calendar calendar = Calendar.getInstance();
    int year = calendar.get(Calendar.YEAR);
    int month = calendar.get(Calendar.MONTH);
    int date = calendar.get(Calendar.DATE);

    DatePickerDialog datePickerDialog = new DatePickerDialog(this, new
    DatePickerDialog.OnDateSetListener() {
        @Override
        public void onDateSet(DatePicker datePicker, int YEAR, int MONTH, int DATE) {
            Calendar calendar1 = Calendar.getInstance();
            calendar1.set(Calendar.YEAR,YEAR);
            calendar1.set(Calendar.MONTH,MONTH);
            calendar1.set(Calendar.DATE,DATE);
            CharSequence charSequence = DateFormat.format("dd/MM/yyyy",calendar1);
            dtext.setText(charSequence);
        }
    },year,month,date);
    datePickerDialog.show();
}

public void disptime(){
    Calendar calendar = Calendar.getInstance();
    int hour = calendar.get(Calendar.HOUR);
    int minute = calendar.get(Calendar.MINUTE);
    boolean is24hour = DateFormat.is24HourFormat(this);
    TimePickerDialog timePickerDialog = new TimePickerDialog(this, new
    TimePickerDialog.OnTimeSetListener() {
        @Override
        public void onTimeSet(TimePicker timePicker, int H, int M) {
            Calendar calendar1 = Calendar.getInstance();
            calendar1.set(Calendar.HOUR,H);
            calendar1.set(Calendar.MINUTE,M);
            CharSequence charSequence = DateFormat.format("h : mm a",calendar1);
            ttext.setText(charSequence);
        }
    }, hour, minute, is24hour);
    timePickerDialog.show();
}
}
```

**Output:**

