Practical 13

1. Write a Program to display circular progress bar

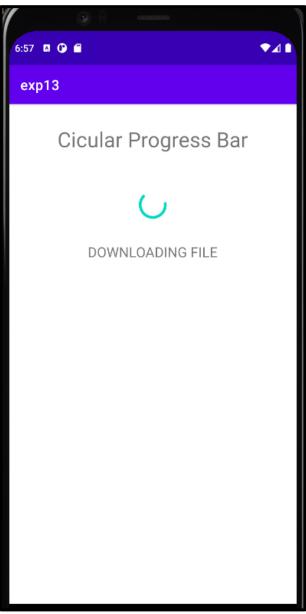
Xml Code:

```
<?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"

Output:

</LinearLayout>



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);
```

Roll no: 19406

```
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;
```

Name: Aditya Choudhary

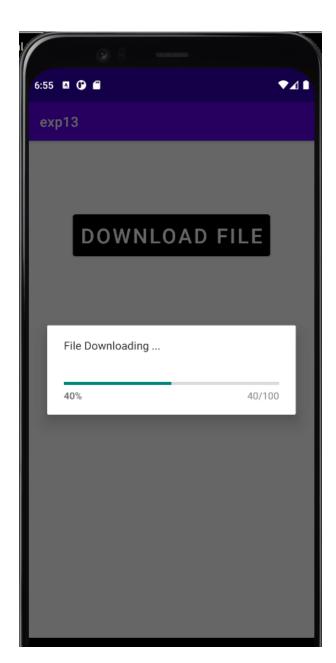
Name: Aditya Choudhary

Roll no: 19406

MAD Experiments

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





Practical 14

1. Write a Program to display the following output.

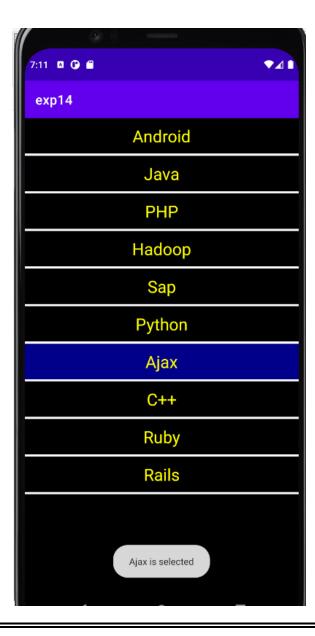
```
Xml Code:
```

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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;

```
Name: Aditya Choudhary
                                                                              MAD Experiments
                                            Roll no : 19406
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 11 = (ListView) findViewById(R.id.list1);
    11.setAdapter(arrayAdapter);
    11.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();
     });
  }
```





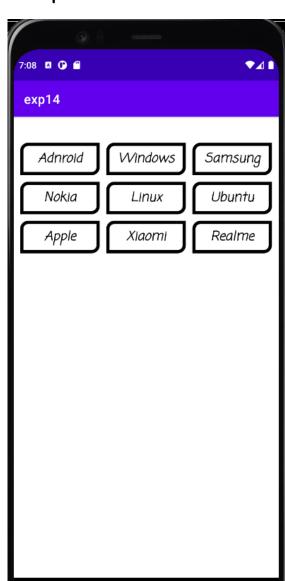
2. Write a Program to create a Grid View and display the name of different phones and operating system and toast selected Phone.

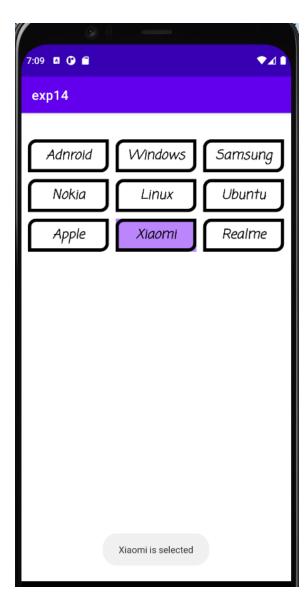
Xml Code:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  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.ArrayAdapter;
import android.widget.GridView;
```

import android.widget.TextView; import android.widget.Toast;

```
Name: Aditya Choudhary
                                                                             MAD Experiments
                                            Roll no : 19406
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();
       }});
  }}
```





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"</p>
  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"</pre>
```

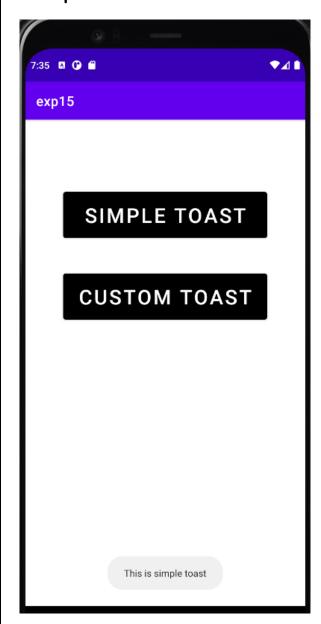
```
Name: Aditya Choudhary
                                            Roll no: 19406
                                                                             MAD Experiments
  android:backgroundTint="@color/black"
  android:background="@color/black"
  <ImageView
    android:layout_width="100dp"
    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);
```

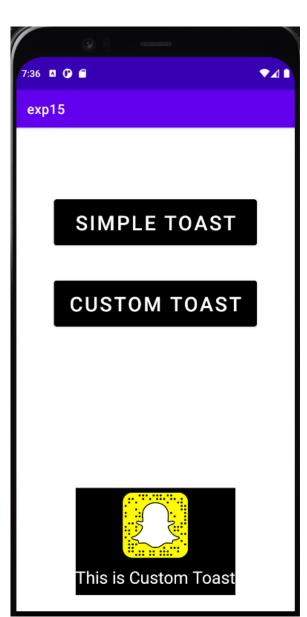
Name : Aditya Choudhary toast.show(); } }); }

MAD Experiments

Output:

}





Roll no: 19406

2. 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"</pre>

```
Name: Aditya Choudhary
                                           Roll no: 19406
                                                                            MAD Experiments
  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"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="wrap_content"
```

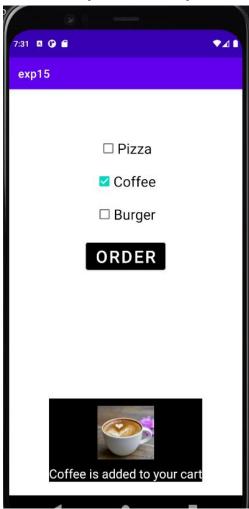
```
Roll no: 19406
Name: Aditya Choudhary
                                                                            MAD Experiments
  android:layout_height="150dp"
  tools:context=".exp15b"
  android:orientation="vertical"
  android:backgroundTint="@color/black"
  android:background="@color/black"
  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";
```

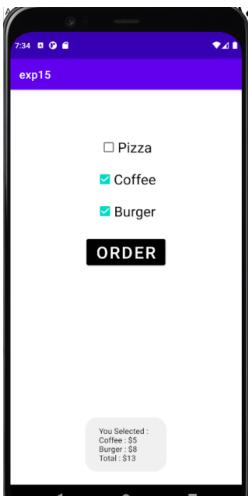
```
Name: Aditya Choudhary
                                             Roll no: 19406
                                                                               MAD Experiments
         tot = 0;
         if(c1.isChecked()){
           Integer p1 = 10;
           tot += p1;
           str += c1.getText().toString()+": $"+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:

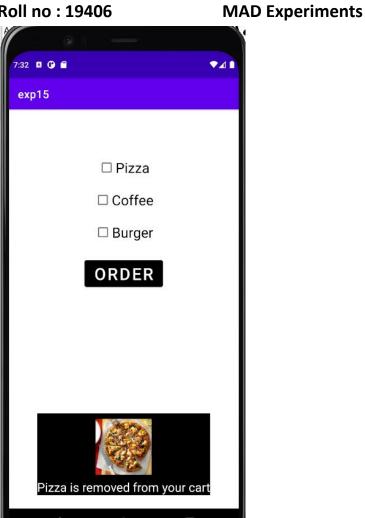
}

Name: Aditya Choudhary





Roll no: 19406





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"</p>
  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"
                                                  7:56 🛭 😯 🖺
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
                                                   exp16
    android:timePickerMode="spinner"
    android:layout_gravity="center"
```

android:layout_marginTop="30dp" />

Output:

</LinearLayout>



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"</p>
  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);
    }
}
```



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 :

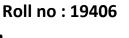
```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  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"
```

```
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    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();
    });
  }
```

```
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                                           Roll no: 19406
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  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 is 24hour = DateFormat.is 24HourFormat(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();
                                           7:50 🖪 😯 🖺
}
                                            exp16
Output:
                                            Date and Time picker
                                                                     SELECT DATE
```

SELECT TIME

Name : Aditya Choudhary



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