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Roll No : 804

EXPERIMENT 6 – WORKING WITH ALERT DIALOG BOX

AIM : To display alert box in application using android.

THEORY:

An Alert Dialog is small window that prompts the user to a decision or enter additional information.

Some times in your application, if you wanted to ask the user about taking a decision between yes or no in response of any particular action taken by the user, by remaining in the same activity and without changing the screen, you can use Alert Dialog.

In order to make an alert dialog, you need to make an object of AlertDialog.Builder which is an inner class of AlertDialog. Its syntax is given below

```
AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder(this);
```

Now you have to set the positive (yes) or negative (no) button using the object of the AlertDialog.Builder class. Its syntax is

```
alertDialogBuilder.setPositiveButton(CharSequence text, DialogInterface.OnClickListener listener)  
alertDialogBuilder.setNegativeButton(CharSequence text, DialogInterface.OnClickListener listener)
```

Other Methods

setCancelable(boolean cancelable) - This method sets the property that the dialog can be cancelled or not.

setMessage(CharSequence message) - This method sets the message to be displayed in the alert dialog.

setTitle(CharSequence title) - This method sets the title to be appear in the dialog.

After creating and setting the dialog builder, you will create an alert dialog by calling the create() method of the builder class. Its syntax is

```
AlertDialog alertDialog = alertDialogBuilder.create();  
alertDialog.show();
```

This will create the alert dialog and will show it on the screen.

ASSIGNMENT

1. Create an alert dialog box with 2 options “Yes and No”. If Yes is clicked then application should close. If No is clicked then alert box should disappear.

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CODE:

activity_main.xml

```
<?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=".MainActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Alert Box Example!!"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/textV1"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SUBMIT"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@id/textV1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="25dp"
        android:id="@+id/btn1"
    />
</RelativeLayout>
```

MainActivity.java

```
package com.example.mca1634.alertbox simple 1;

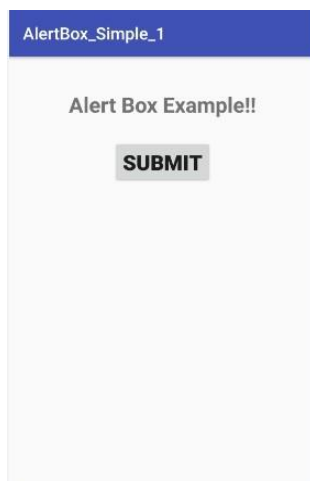
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
    Button btn1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

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```
        setContentView(R.layout.activity_main);
        btn1=(Button)findViewById(R.id.btn1);
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                alert_box();
            }
        });
    }
    public void alert_box()
    {
        AlertDialog.Builder a_builder =new AlertDialog.Builder(MainActivity.this);
        a_builder.setMessage("Do you want to exit the app?").setPositiveButton("YES",
new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                finish();
            }
        }).setNegativeButton("No", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                dialog.cancel();
            }
        });
        AlertDialog alert = a_builder.create();
        alert.setTitle("ALERT!!!");
        alert.show();
    }
}
```

OUTPUT:



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2. Create an alert dialog box with 2 options "Yes and No". If Yes is clicked then it should direct to second activity. If No is clicked then alert box should disappear.

CODE:

activity_main.xml

```
<?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=".MainActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Main Activity!"
        android:textSize="30dp"
        android:textStyle="bold"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="10dp"
        android:id="@+id/textV1" />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SUBMIT"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@id/textV1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="50dp"
        android:id="@+id/btn1"
        />
</RelativeLayout>
```

MainActivity.java

```
package com.example.mca1634.alertbox redirect 2nd page 2;

import android.app.AlertDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
    Button btn1;
```

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```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    btn1 = (Button) findViewById(R.id.btn1);
    btn1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            alert_box();
        }
    });
}

public void alert_box()
{
    AlertDialog.Builder a_builder =new
AlertDialog.Builder(MainActivity.this);
    a_builder.setMessage("Do you want to go Second
Activity ?").setPositiveButton("YES", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            Intent first =new
Intent(MainActivity.this,SecondActivity.class);
            startActivity(first);
        }
    }).setNegativeButton("No", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            dialog.cancel();
        }
    });
    AlertDialog alert = a_builder.create();
    alert.setTitle("ALERT!!!");
    alert.show();
}
}
```

activity_second.xml

```
<?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=".SecondActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

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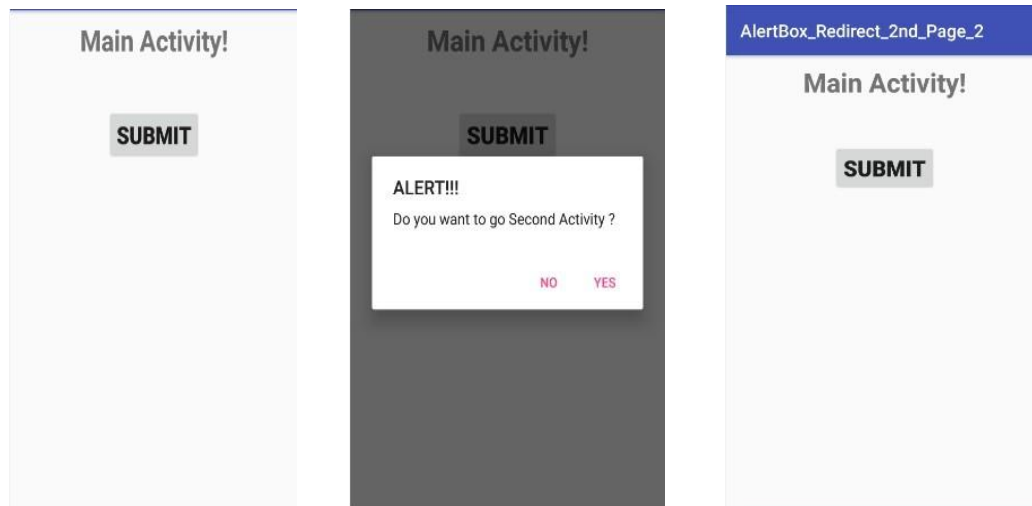
```
        android:text="Welcome to Second Activity !"
        android:textSize="30dp"
        android:textStyle="bold"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:id="@+id/textV1" />
</RelativeLayout>
```

SecondActivity.java

```
package com.example.mca1634.alertbox redirect 2nd page 2;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class SecondActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
    }
}
```

OUTPUT:



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3. Create a login form with Sign In button for an Admin. In successful login, admin should be directed to welcome page, if not display a message as wrong credentials using alert dialog box. Disable Sign In button after 3 attempts.

CODE:

activity_main.xml

```
<?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=".MainActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Main Activity!"
        android:textSize="30dp"
        android:textStyle="bold"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="10dp"
        android:id="@+id/textV1" />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="30dp"
        android:textStyle="bold"
        android:hint="    User Name"
        android:layout_below="@id/textV1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:id="@+id/edit1" />
    <EditText
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:textSize="30dp"
        android:textStyle="bold"
        android:hint="    Password"
        android:layout_below="@id/edit1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:id="@+id/edit2" />
    <Button
        android:layout_width="wrap_content"
```

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```
        android:layout_height="wrap_content"
        android:text="LOGIN"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@id/edit2"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="30dp"
        android:id="@+id/btn1"
    />
</RelativeLayout>
```

MainActivity.java

```
package com.example.mca1634.alertbox signin 3;

import android.app.AlertDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
public class MainActivity extends AppCompatActivity {
    EditText edit1,edit2;
    Button btn1;
    int count=1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        edit1=(EditText) findViewById(R.id.edit1);
        edit2=(EditText) findViewById(R.id.edit2);
        btn1=(Button) findViewById(R.id.btn1);
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                if(edit1.getText().toString().equals("admin") &&
edit2.getText().toString().equals("admin")) {
                    Intent first = new Intent(MainActivity.this,
SecondActivity.class);
                    startActivity(first);
                }
                else
                {
                    alert_box();
                }
            }
        });
    }
}
```


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```
public void alert_box()
{
    AlertDialog.Builder a_builder =new AlertDialog.Builder(MainActivity.this);
    a_builder.setMessage("Wrong Credentials ?").setPositiveButton("YES", new
DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            if(count >=3)
                btn1.setEnabled(false);
            else
                count++;
        }
    }).setNegativeButton("No", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            dialog.cancel();
        }
    });
    AlertDialog alert = a_builder.create();
    alert.setTitle("ALERT!!!");
    alert.show();
}
```

activity_second.xml

```
<?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=".SecondActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Welcome to second Activity!"
        android:textSize="30dp"
        android:textStyle="bold"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="10dp"
        android:id="@+id/textV1" />
</RelativeLayout>
```

SecondActivity.java

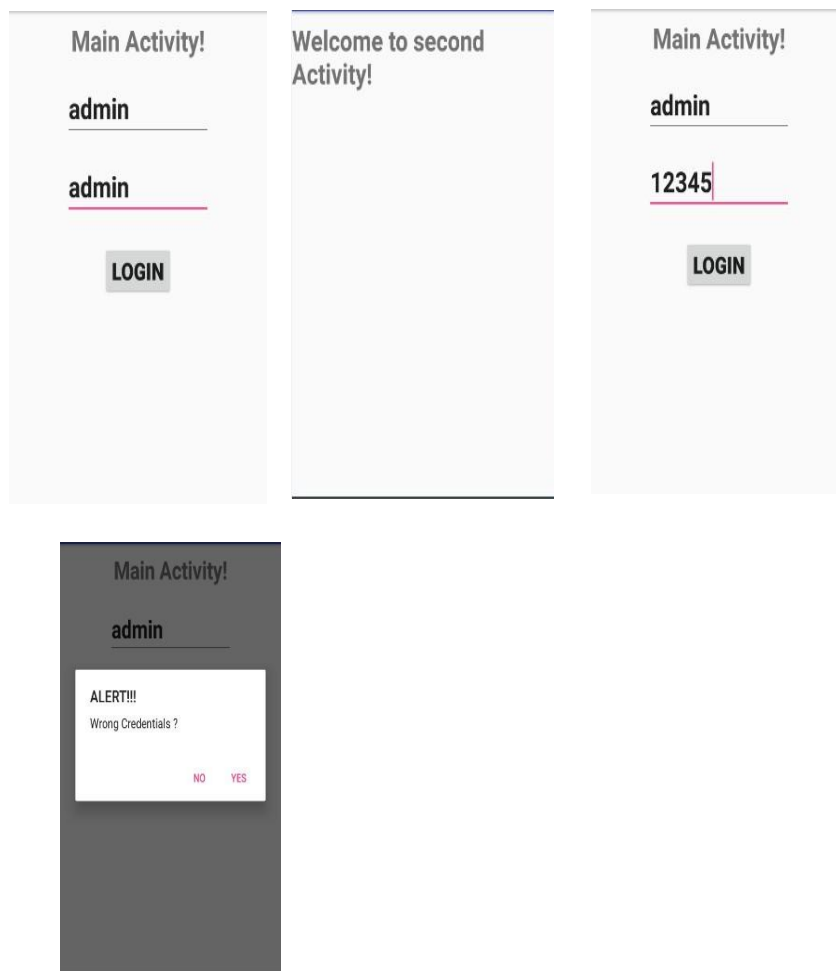
```
package com.example.mca1634.alertbox signin 3;
```

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```
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
public class SecondActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
    }
}
```

OUTPUT:



After Entering User Name and Password for 3 times Login Button is disabled

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Main Activity!

admin

12345

LOGIN

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4. Create an alert dialog with 3 options Yes, No and Cancel. If user clicks Yes, the application should display a toast message "You have pressed Yes". If user clicks No, the application should display toast message "You have pressed No". If user clicks cancel, application should get closed.

CODE:

activity_main.xml

```
<?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=".MainActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Select Button !!"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/textV1"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Click"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@id/textV1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="25dp"
        android:id="@+id/btn1"
    />
</RelativeLayout>
```

MainActivity.java

```
package com.example.mca1634.alertbox intent toast 4th;

import android.app.AlertDialog;
import android.content.DialogInterface;
import android.content.Intent;
```

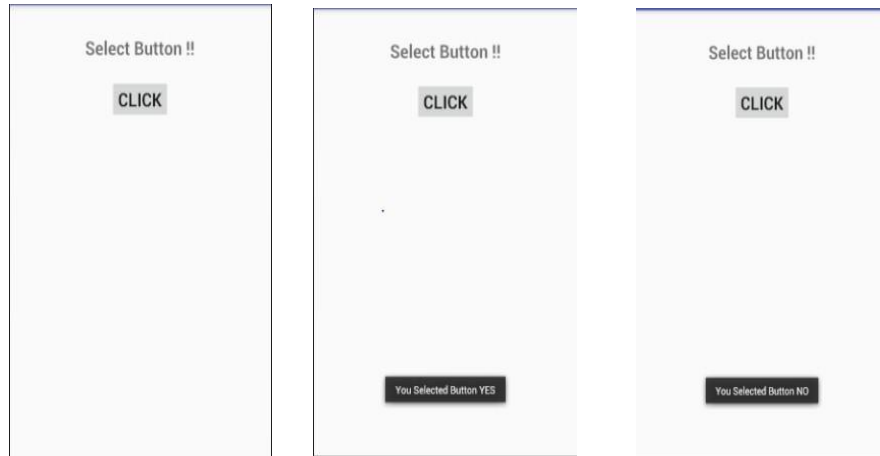
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```
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    Button btn1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        btn1=(Button) findViewById(R.id.btn1);
        btn1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                alert_box();
            }
        });
    }
    public void alert_box()
    {
        AlertDialog.Builder a_builder =new AlertDialog.Builder(MainActivity.this);
        a_builder.setMessage("Select Following Option?").setPositiveButton("YES", new
DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                Toast.makeText(getApplicationContext(), "You Selected Button YES",
Toast.LENGTH_SHORT).show();
            }
        }).setNegativeButton("No", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                Toast.makeText(getApplicationContext(), "You Selected Button NO",
Toast.LENGTH_SHORT).show();
            }
        }).setNegativeButton("Cancel", new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int which) {
                finish();
            }
        });
        AlertDialog alert = a_builder.create();
        alert.setTitle("ALERT!!!");
        alert.show();
    }
}
```

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OUTPUT:



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5. Sample Application.

CODE:

activity_main.xml

```
<?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=".MainActivity"
    android:id="@+id/layout"
    >
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Alert Box"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/textV1"
        />
    <TextView
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:text="        TEXT"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@id/textV1"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/textV2"
        />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Change Background"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@+id/textV2"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/btn1"
        />
</Button>
```

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```
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Change Text Color"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@+id/btn1"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/btn2"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Goto Second Layout"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@+id/btn2"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/btn3"
    />
    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="EXIT"
        android:textSize="25sp"
        android:textStyle="bold"
        android:layout_below="@+id/btn3"
        android:layout_marginTop="40dp"
        android:layout_centerHorizontal="true"
        android:id="@+id/btn6"
    />
</RelativeLayout>
```

MainActivity.java

```
package com.example.mca1634.alertbox back 5th;

import android.content.Intent;
import android.graphics.Color;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.RelativeLayout;
import android.widget.TextView;
public class MainActivity extends AppCompatActivity {
    TextView text;
    Button BgColor,txtColor,gotoSec;
    RelativeLayout layout;
```


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```
Button exit;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    text=(TextView) findViewById(R.id.textV2);
    BgColor=(Button) findViewById(R.id.btn1);
    txtColor=(Button) findViewById(R.id.btn2);
    gotoSec=(Button) findViewById(R.id.btn3);
    exit=(Button) findViewById(R.id.btn6);
    layout=(RelativeLayout) findViewById(R.id.layout);
    BgColor.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            layout.setBackgroundColor(Color.RED);
        }
    });
    txtColor.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            text.setTextColor(Color.GREEN);
        }
    });
    gotoSec.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Intent first=new Intent(MainActivity.this,SecondActivity.class);
            first.setFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);
            first.putExtra("EXIT", true);
            startActivity(first);
        }
    });
    exit.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            if (getIntent().getBooleanExtra("EXIT", true)) {
                finish();
                System.exit(0);
            }
        }
    });
}
```

activity_second.xml

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
```

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```
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=".SecondActivity">
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Goto Previous"
    android:textSize="25sp"
    android:textStyle="bold"
    android:layout_marginTop="40dp"
    android:layout_centerHorizontal="true"
    android:id="@+id/btn4"
/>
<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Exit"
    android:textSize="25sp"
    android:textStyle="bold"
    android:layout_below="@+id/btn4"
    android:layout_marginTop="40dp"
    android:layout_centerHorizontal="true"
    android:id="@+id/btn5"
/>
</RelativeLayout>
```

SecondActivity.java

```
package com.example.mca1634.alertbox back 5th;

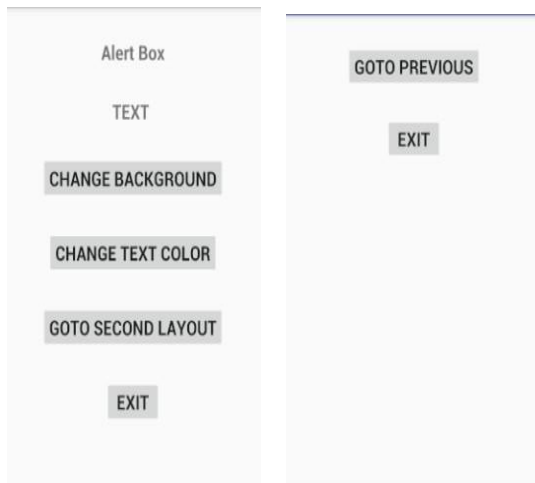
import android.content.Intent;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class SecondActivity extends AppCompatActivity {
    Button gotoPrev,exit;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_second);
        gotoPrev=(Button)findViewById(R.id.btn4);
        exit=(Button)findViewById(R.id.btn5);
        gotoPrev.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent second=new Intent(SecondActivity.this,MainActivity.class);
                startActivity(second);
            }
        });
    }
}
```

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```
    }
});
exit.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (getIntent().getBooleanExtra("EXIT", false)) {
            finish();
            System.exit(0);
        }
    }
});
}
```

OUTPUT:



CONCLUSION: Successfully Understand Alert Box Concept.