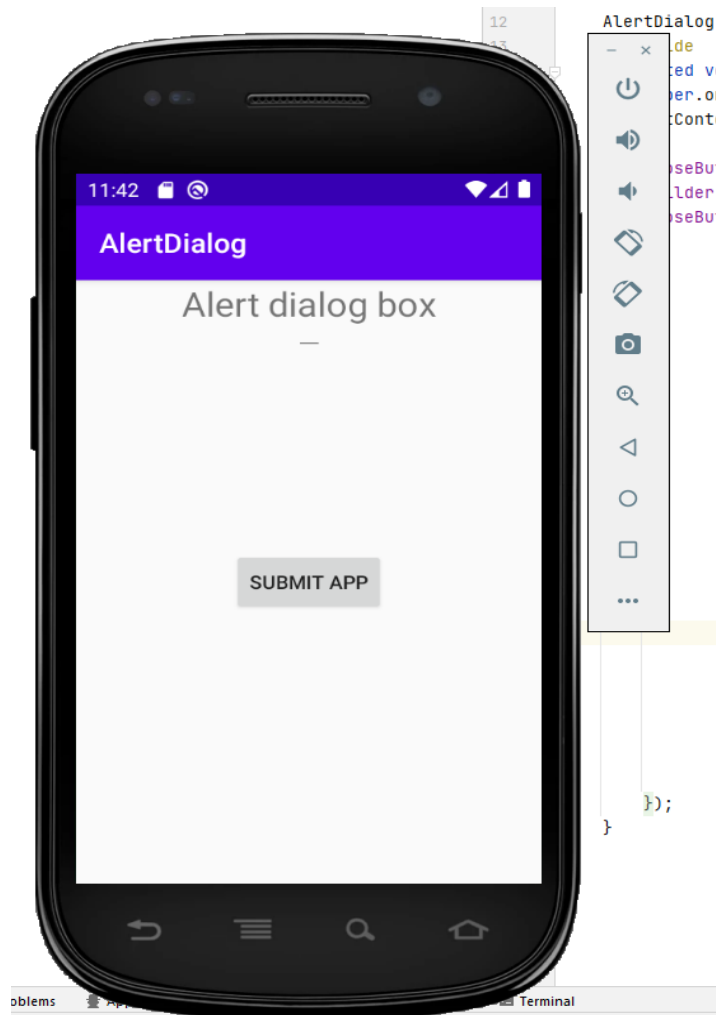
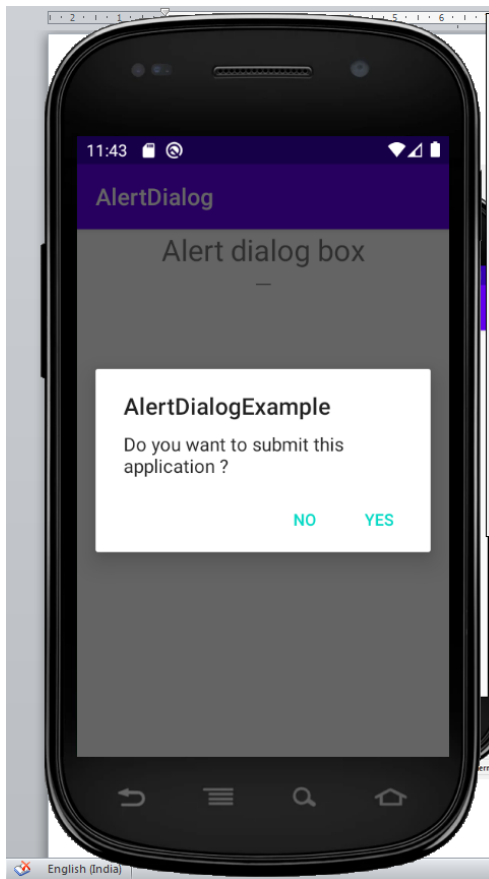


Alert Dialog :





```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    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"
    >
    <TextView
        android:id="@+id/textView1"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:gravity="center_horizontal"
        android:textSize="25dp"
        android:text="Alert dialog box"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true" />

    <EditText
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:textAppearance="?android:attr/textAppearanceSmall"
        android:textSize="25dp"
        app:layout_constraintEnd_toEndOf="parent"
```

```

        app:layout_constraintStart_toStartOf="parent"
        tools:layout_editor_absoluteY="172dp" />

<Button
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/button"
    android:text="Submit app"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout >

```

String.xml

```

<resources>
    <string name="app_name">AlertDialog</string>
    <string name="dialog_message">Welcome to Alert Dialog</string>
    <string name="dialog_title">Say Hello to Alert Dialog</string>
</resources>

```

.java code

```

package com.example.alert;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.content.DialogInterface;
import android.view.View;
import android.widget.Button;
import android.app.AlertDialog;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
    Button closeButton;
    AlertDialog.Builder builder;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        closeButton = (Button) findViewById(R.id.button);
        builder = new AlertDialog.Builder(this);
        closeButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {

                //Uncomment the below code to Set the message and title
                from the strings.xml file
                builder.setMessage(R.string.dialog_message)
                .setTitle(R.string.dialog_title);

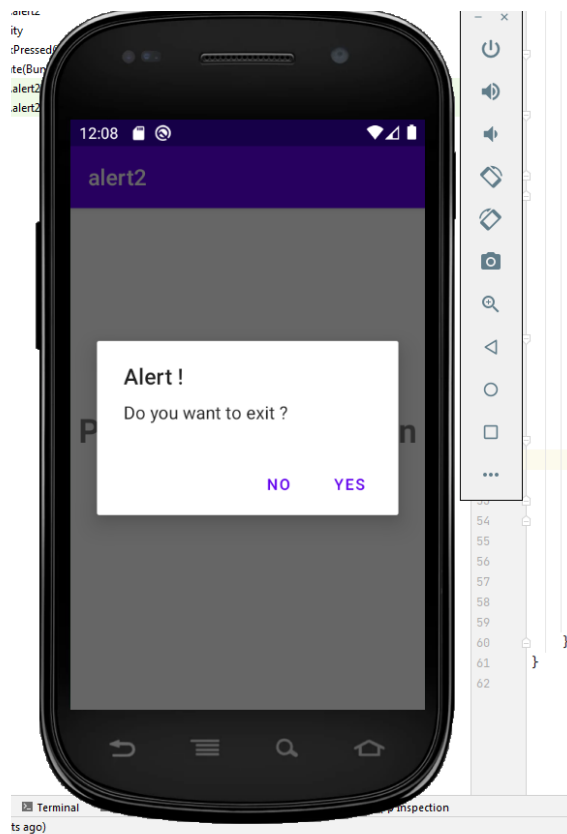
                //Setting message manually and performing action on button
                click
            }
        });
    }
}

```

```

        builder.setMessage("Do you want to submit this application
        ?")
        .setCancelable(false)
        .setPositiveButton("Yes", new
        DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog, int
            id) {
                finish();
                Toast.makeText(getApplicationContext(), "you
                choose yes action for alertbox",
                Toast.LENGTH_SHORT).show();
            }
        })
        .setNegativeButton("No", new
        DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog, int
            id) {
                // Action for 'NO' Button
                dialog.cancel();
                Toast.makeText(getApplicationContext(), "you
                choose no action for alertbox",
                Toast.LENGTH_SHORT).show();
            }
        });
        //Creating dialog box
        AlertDialog alert = builder.create();
        //Setting the title manually
        alert.setTitle("AlertDialogExample");
        alert.show();
    }
}
}

```



```
<?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="Press The Back Button of Your Phone."
        android:textStyle="bold"
        android:textSize="30dp"
        android:gravity="center_horizontal"
        android:layout_marginTop="180dp"
    />

</RelativeLayout>
package com.example.alert2;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.content.DialogInterface;
public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
```

```

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    // Declare the onBackPressed method
    // when the back button is pressed
    // this method will call
    @Override
    public void onBackPressed()
    {

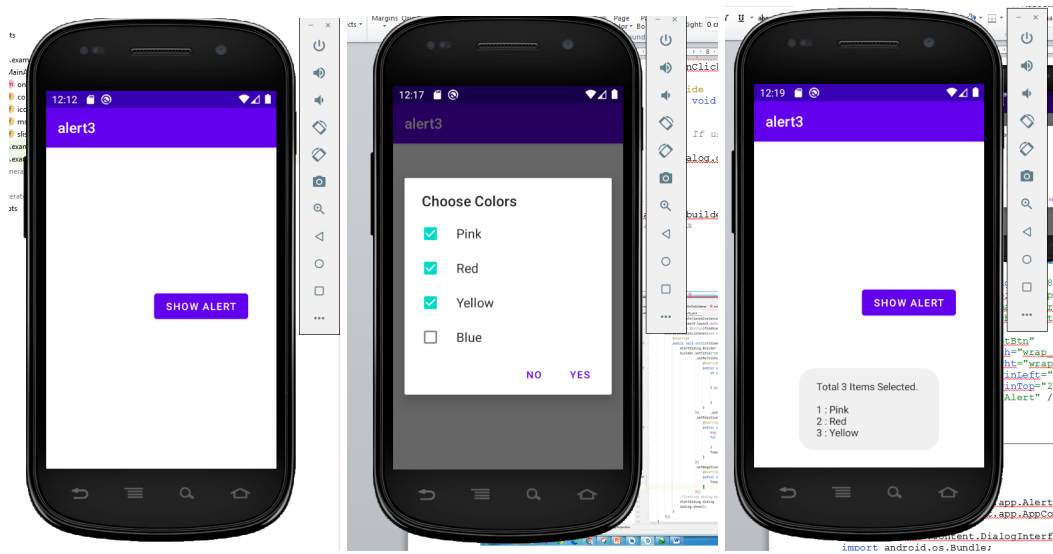
        // Create the object of AlertDialog Builder class
        AlertDialog.Builder builder = new
AlertDialog.Builder(MainActivity.this);
        // Set the message show for the Alert time
        builder.setMessage("Do you want to exit ?");
        // Set Alert Title
        builder.setTitle("Alert !");
        // Set Cancelable false for when the user clicks on the outside
the Dialog Box then it will remain show
        builder.setCancelable(false);
        // Set the positive button with yes name OnClickListener method is
use of DialogInterface interface.
        builder.setPositiveButton("Yes", new
DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface dialog, int
which)
            {
                // When the user click yes button then app
will close
                finish();
            }
        });

        // Set the Negative button with No name OnClickListener method is
use of DialogInterface interface.
        builder
            .setNegativeButton(
                "No",
                new DialogInterface
                    .OnClickListener() {
                        @Override
                        public void onClick(DialogInterface dialog,
int which)
                        {
                            // If user click no then dialog box is
canceled.
                            dialog.cancel();
                        }
                    }
            );

        // Create the Alert dialog
        AlertDialog alertDialog = builder.create();
        // Show the Alert Dialog box
        alertDialog.show();
    }

```

```
}
}
```



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent" android:layout_height="match_parent">
    <Button
        android:id="@+id/getBtn"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="200dp"
        android:text="Show Alert" />
</RelativeLayout>
```

```
package com.example.alert3;

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

import java.util.ArrayList;

public class MainActivity extends AppCompatActivity {

    final CharSequence[] colors = { "Pink", "Red", "Yellow", "Blue" };
}
```

```

ArrayList<Integer> slist = new ArrayList();
boolean icount[] = new boolean[colors.length];
String msg = "";
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Button btn = (Button) findViewById(R.id.getBtn);
    btn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            AlertDialog.Builder builder = new
AlertDialog.Builder(MainActivity.this);
            builder.setTitle("Choose Colors")
                .setMultiChoiceItems(colors, icount, new
DialogInterface.OnMultiChoiceClickListener() {
                    @Override
                    public void onClick(DialogInterface arg0, int
arg1, boolean arg2) {
                        if (arg2) {
                            // If user select a item then add it in
selected items
                            slist.add(arg1);
                        } else if (slist.contains(arg1)) {
                            // if the item is already selected then
remove it
                            slist.remove(Integer.valueOf(arg1));
                        }
                    }
                })
                .setCancelable(false)
                .setPositiveButton("Yes", new
DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialog, int
which) {
                        msg = "";
                        for (int i = 0; i < slist.size(); i++) {
                            msg = msg + "\n" + (i + 1) + " : " +
colors[slist.get(i)];
                        }
                        Toast.makeText(getApplicationContext(),
"Total " + slist.size() + " Items Selected.\n" + msg,
Toast.LENGTH_SHORT).show();
                    }
                })
                .setNegativeButton("No", new
DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialog, int
which) {
                        Toast.makeText(MainActivity.this, "No Option
Selected", Toast.LENGTH_SHORT).show();
                    }
                });
            //Creating dialog box
            AlertDialog dialog = builder.create();
            dialog.show();
        }
    });
}

```

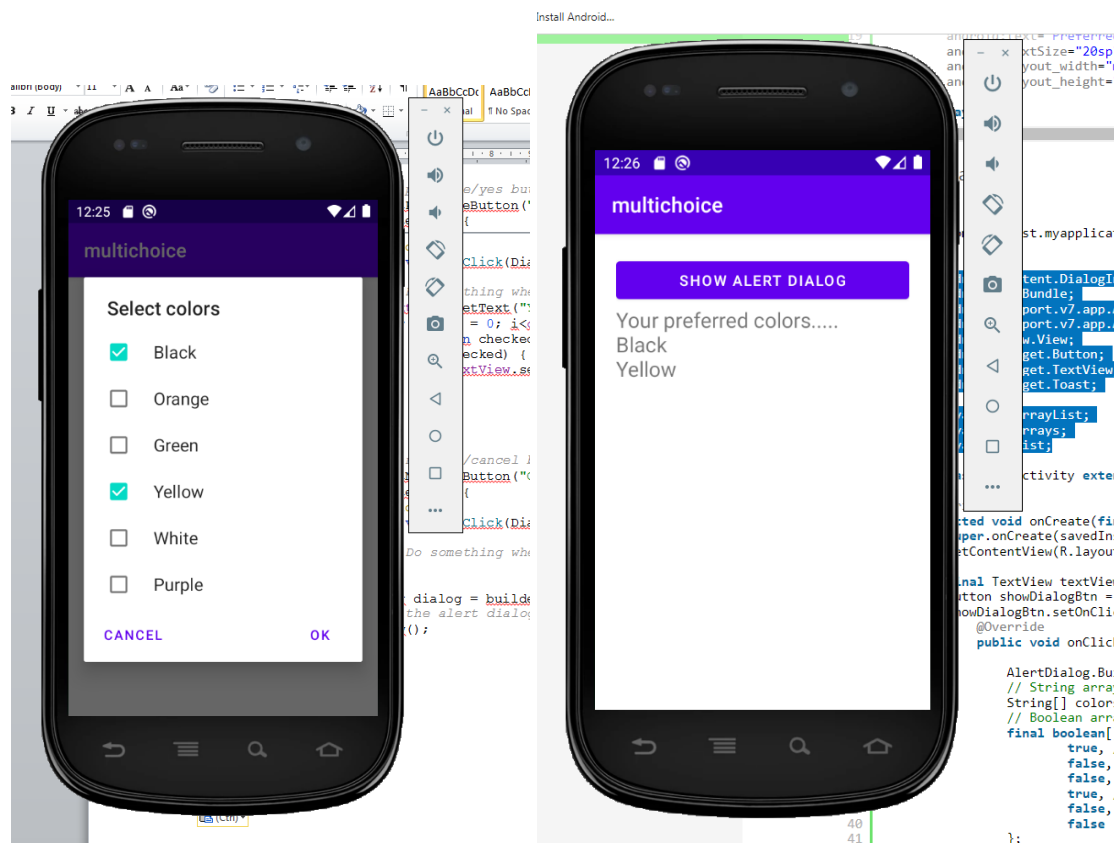


```

    });
}
}

```

Example 4:



```

<?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"
    android:padding="20dp"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/showsnackbarbtn"
        android:text="Show Alert Dialog"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />

    <TextView

```

```

        android:id="@+id/txtView"
        android:text="Preferred colors"
        android:textSize="20sp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />

```

```
</LinearLayout>
```

```
package com.example.multichoice;
```

```

import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

```

```

import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;

```

```

import java.util.Arrays;
import java.util.List;

```

```
public class MainActivity extends AppCompatActivity {
```

```
    @Override
```

```

    protected void onCreate(final Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

```

```

    final TextView textView = findViewById(R.id.txtView);
    Button showDialogBtn = findViewById(R.id.showsnackbarbtn);
    showDialogBtn.setOnClickListener(new View.OnClickListener() {

```

```
        @Override
```

```
        public void onClick(View view) {
```

```

            AlertDialog.Builder builder = new
AlertDialog.Builder(MainActivity.this);
            // String array for alert dialog multi choice items
            String[] colorsArray = new String[]{"Black", "Orange",
"Green", "Yellow", "White", "Purple"};
            // Boolean array for initial selected items
            final boolean[] checkedColorsArray = new boolean[]{
                true, // Black checked
                false, // Orange
                false, // Green
                true, // Yellow checked
                false, // White
                false //Purple
            };
            // Convert the color array to list
            final List<String> colorsList = Arrays.asList(colorsArray);
            //setTitle
            builder.setTitle("Select colors");
            //set multichoice
            builder.setMultiChoiceItems(colorsArray, checkedColorsArray,
new DialogInterface.OnMultiChoiceClickListener() {

```

```

        @Override
        public void onClick(DialogInterface dialog, int which,
boolean isChecked) {
            // Update the current focused item's checked status
            checkedColorsArray[which] = isChecked;
            // Get the current focused item
            String currentItem = colorsList.get(which);
            // Notify the current action
            Toast.makeText(getApplicationContext(), currentItem
+ " " + isChecked, Toast.LENGTH_SHORT).show();
        }
    });
    // Set the positive/yes button click listener
    builder.setPositiveButton("OK", new
DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            // Do something when click positive button
            textView.setText("Your preferred colors..... \n");
            for (int i = 0; i<checkedColorsArray.length; i++){
                boolean checked = checkedColorsArray[i];
                if (checked) {
                    textView.setText(textView.getText() +
colorsList.get(i) + "\n");
                }
            }
        }
    });
    // Set the neutral/cancel button click listener
    builder.setNegativeButton("Cancel", new
DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialog, int which) {
            // Do something when click the neutral button
        }
    });
    AlertDialog dialog = builder.create();
    // Display the alert dialog on interface
    dialog.show();

}

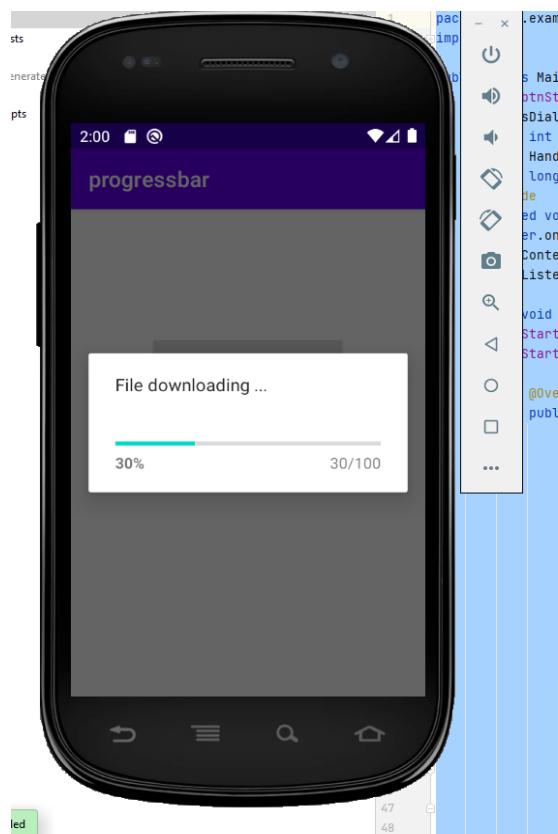
});

}

}

```

progress Bar



```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingLeft="10dp"
    android:paddingRight="10dp">
    <Button
```

```

        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="116dp"
        android:text="Movie Download file" />

```

```
</RelativeLayout>
```

```

package com.example.progressbar;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.app.ProgressDialog;
import android.os.Handler;

import android.view.View;
import android.widget.Button;

public class MainActivity 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_main);
        addListenerOnButtonClick();
    }
    public void addListenerOnButtonClick() {
        btnStartProgress = findViewById(R.id.button1);
        btnStartProgress.setOnClickListener(new View.OnClickListener() {

            @Override
            public void onClick(View v) {
                // creating progress bar dialog
                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();
                //reset progress bar and filesize status
                progressBarStatus = 0;
                fileSize = 0;

                new Thread(new Runnable() {
                    public void run() {
                        while (progressBarStatus < 100) {
                            // performing operation
                            progressBarStatus = doOperation();
                            try {
                                Thread.sleep(1000);

```

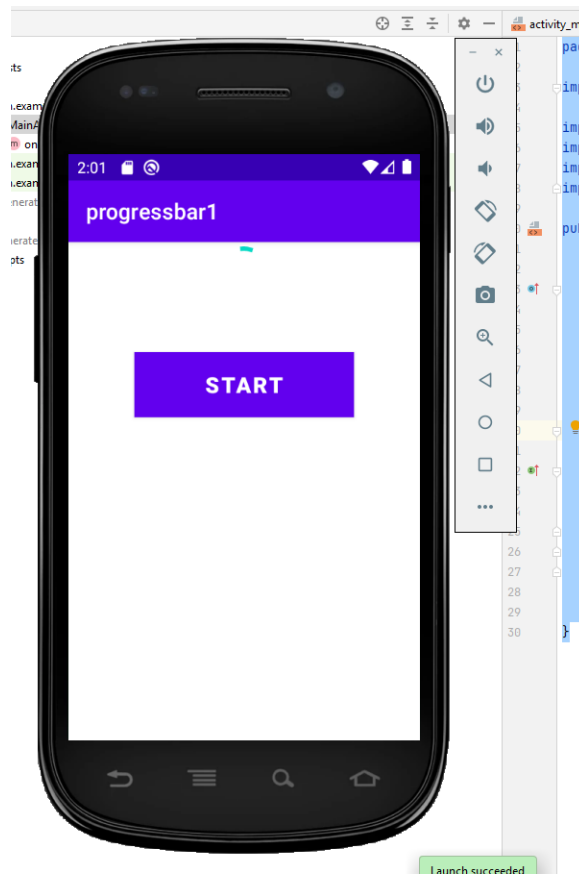
```

        } catch (InterruptedException e) {
            e.printStackTrace();
        }
        // Updating the progress bar
        progressBarHandler.post(new Runnable() {
            public void run() {

progressBar.setProgress(progressBarStatus);
            }
        });
    }
    // performing operation if file is downloaded,
    if (progressBarStatus >= 100) {
        // sleeping for 1 second after operation
completed
        try {
            Thread.sleep(1000);
        } catch (InterruptedException e) {
            e.printStackTrace();
        }
        // close the progress bar dialog
        progressBar.dismiss();
    }
}
}).start();
} //end of onClick method
});
}
// checking how much file is downloaded and updating the filesize
public int doOperation() {
    //The range of ProgressDialog starts from 0 to 10000
    while (fileSize <= 10000) {
        fileSize++;
        if (fileSize == 1000) {
            return 10;
        } else if (fileSize == 2000) {
            return 20;
        } else if (fileSize == 3000) {
            return 30;
        } else if (fileSize == 4000) {
            return 40; // you can add more else if
        }
        /* else {
            return 100;
        } */
    } //end of while
    return 100;
} //end of doOperation
}

```

example 2



```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <ProgressBar
        android:id="@+id/simpleProgressBar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:visibility="invisible"
        android:layout_centerHorizontal="true"/>

    <Button
        android:id="@+id/startButton"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:text="Start"
        android:textSize="20sp"
        android:textStyle="bold"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="100dp"
        android:padding="10dp"
        android:background="#0f0"
        android:textColor="#fff"/>

</RelativeLayout>
package com.example.progressbar1;
```



```

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ProgressBar;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        // initiate progress bar and start button
        final ProgressBar simpleProgressBar = (ProgressBar)
findViewById(R.id.simpleProgressBar);
        Button startButton = (Button) findViewById(R.id.startButton);
        // perform click event on button
        startButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                // visible the progress bar
                simpleProgressBar.setVisibility(View.VISIBLE);
            }
        });
    }

}

```