Practical 6 **Programming menus and dialog**

a) **Creation of Menu**

- Create a new project and go to,
- Project > App -> src -> res(Right-click on res and select) -> New -> Android Resource File -> Filename(menus) and Resource Type Menu
- Now go to, menus**.**xml file and make the following changes to code file,

menus.xml

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


  android:layout_width="wrap_content"
  android:layout_height="wrap_content"
  <item android:id="@+id/newb" android:title="File" />
  <item  android:id="@+id/search" android:title="Open" />
  <item android:id="@+id/save" android:title="Save"/>
  <item android:id="@+id/Share" android:title="Save As" />
  <item android:id="@+id/delete" android:title="Delete" />
  <item android:id="@+id/Exit" android:title="Close" />



</menu>
```

Now go to **MainActivity.java** file and make the following changes to code,

MainActivity.java

```java
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;

import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {



    public boolean onCreateOptionsMenu(Menu menu)
    {
        MenuInflater mi=getMenuInflater();
        mi.inflate(R.menu.menus,menu);
        return true;
    }
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);


    }
    public boolean onOptionsItemSelected(MenuItem item)
    {

        switch (item.getItemId())
        {
            case R.id.newb:
                Toast.makeText(this,"File Selected",Toast.LENGTH_SHORT).show();
                return true;
            case R.id.Share:
                Toast.makeText(this,"Open Selected",Toast.LENGTH_SHORT).show();
                return true;
            case R.id.delete:
                Toast.makeText(this,"Save Selected",Toast.LENGTH_SHORT).show();
```

```java
            return true;
        case R.id.save:
            Toast.makeText(this,"Save As Selected",Toast.LENGTH_SHORT).show();
            return true;
        case R.id.search:
            Toast.makeText(this,"Delete Selected",Toast.LENGTH_SHORT).show();
            return true;
        case R.id.Exit: Toast.makeText(this,"Exit Selected",Toast.LENGTH_SHORT).show();
            return true;
        default:
            Toast.makeText(this,"Default",Toast.LENGTH_SHORT).show();
            return super.onOptionsItemSelected(item);
        }
    }


}
```

b) **Creation of Dialog**

Create a new project and go to, **activity_main.xml,** and make the following additions to the code

activity_main.xml

```xml
<?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"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:orientation="vertical"
  android:stretchColumns="1">




  <Button android:layout_height="wrap_content"
    android:layout_width="match_parent"
    android:id="@+id/button_dialog"
    android:onClick="onClickDialog"
    android:text="Click to display an alert dialog"/>

  <Button android:layout_height="wrap_content"
    android:layout_width="match_parent"
    android:id="@+id/button_progressdialog"
    android:onClick="onClickProgressDialog"
    android:text="Click to display a progressdialog"/>

  <Button android:layout_height="wrap_content"
    android:layout_width="match_parent"
    android:id="@+id/button_datedialog"
    android:onClick="onClickDateDialog"
    android:text="Click to display a DatePicker dialog"/>

  <Button android:layout_height="wrap_content"
    android:layout_width="match_parent"
    android:id="@+id/button_timedialog"
    android:onClick="onClickTimeDialog"
    android:text="Click to display a TImePicker dialog"/>

  <TextView
    android:id="@+id/textView_date"
    android:layout_width="398dp"
    android:layout_height="wrap_content"
```

```
        android:text="TextView1"
        android:textSize="50dp" />

    <TextView
        android:id="@+id/textView_time"
        android:layout_width="400dp"
        android:layout_height="wrap_content"
        android:text="TextView2"
        android:textSize="50dp" />




</LinearLayout>
```

Go to file **MainActivity.java** and make the following changes to the code .

<u>Main_Activity.java</u>

```java
 import androidx.appcompat.app.AppCompatActivity;

import android.app.AlertDialog;
import android.os.Bundle;

import android.app.DatePickerDialog;
import android.app.Dialog;
import android.app.ProgressDialog;
import android.app.TimePickerDialog;
import android.content.DialogInterface;
import android.view.View;
import android.widget.DatePicker;
import android.widget.TextView;
import android.widget.TimePicker;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity  {



  CharSequence[] items={"Android","Security","Cloud"};
  boolean[] itemsChecked=new boolean[items.length];
```

```java
@Override
protected void onCreate(Bundle savedInstanceState)
{
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);


}

public void onClickDialog(View v)
{
    AlertDialog.Builder builder = new AlertDialog.Builder(this);

    builder.setTitle("This is a dialog with a simple Text");
    builder.setPositiveButton("OK", new DialogInterface.OnClickListener() {

        @Override public void onClick(DialogInterface dialog, int id)
        {
            Toast.makeText(getBaseContext(), "OK CLicked", Toast.LENGTH_SHORT).show();
        } });
    builder.setNegativeButton("Cancel", new DialogInterface.OnClickListener()
    {
        @Override public void onClick(DialogInterface dialog, int id)
        {
            Toast.makeText(getBaseContext(), "Cancel CLicked", Toast.LENGTH_SHORT).show();
        } });
    builder.setMultiChoiceItems(items, itemsChecked, new
DialogInterface.OnMultiChoiceClickListener()
    {
        @Override public void onClick(DialogInterface dialog, int id, boolean isChecked)
        {
            Toast.makeText(getBaseContext(), items[id] + (isChecked ? "checked!" : "unchecked!"),
Toast.LENGTH_SHORT).show();
        } });
    AlertDialog dialog = builder.create(); builder.show();
}


}
```