

**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 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**

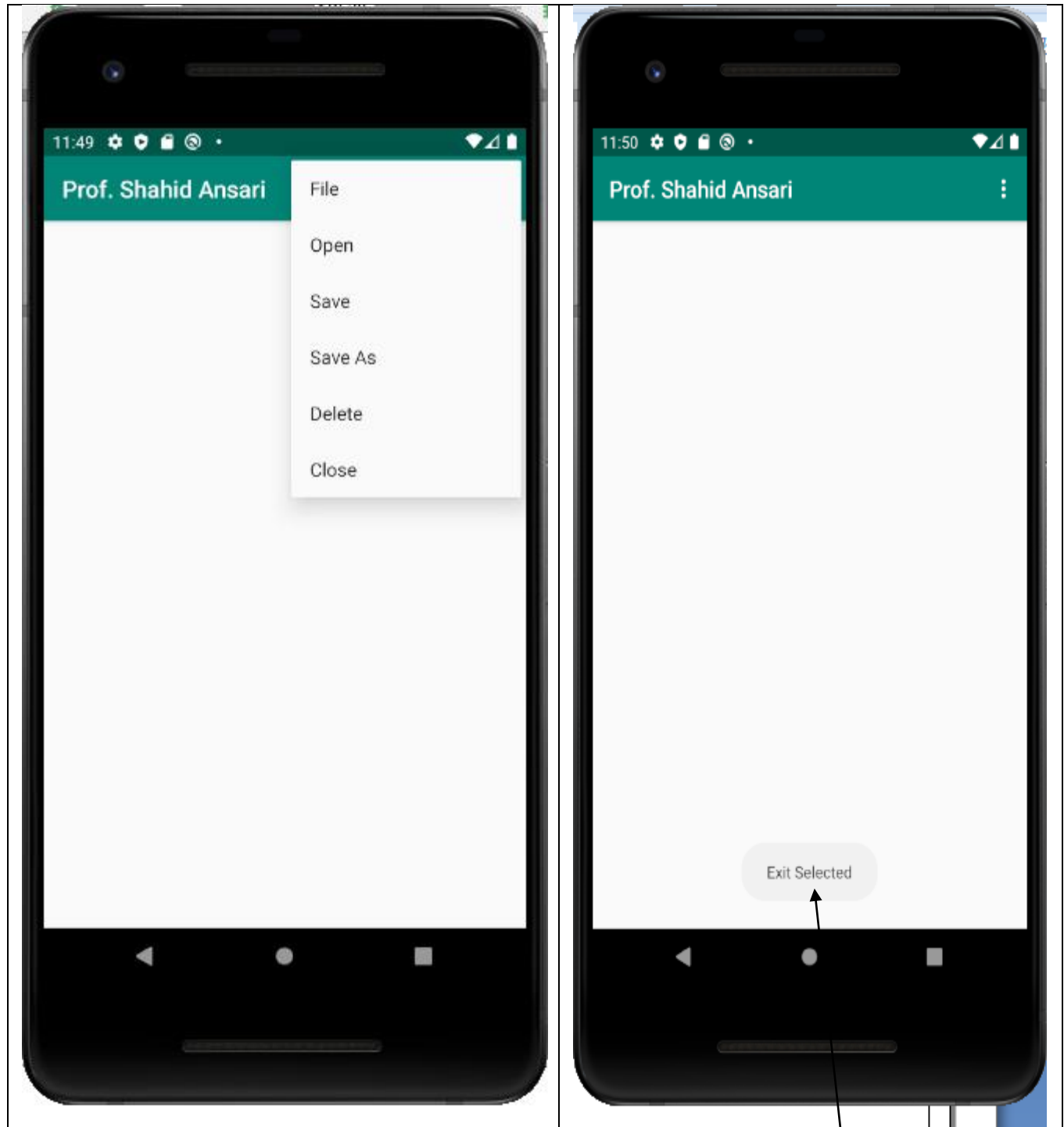
```
package MaharashtraCollege.example.profshahidansari;

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();
```

```
        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);
    }
}
```



Output of Toast Message

**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 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 .

### Main Activity.java

```
package MaharashtraCollege.example.profshahidansari;

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];
```

```
@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(getApplicationContext(), "OK Clicked", Toast.LENGTH_SHORT).show();
        } });
    builder.setNegativeButton("Cancel", new DialogInterface.OnClickListener() {

        @Override public void onClick(DialogInterface dialog, int id)
        {
            Toast.makeText(getApplicationContext(), "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(getApplicationContext(), items[id] + (isChecked ? "checked!" : "unchecked!"),
            Toast.LENGTH_SHORT).show();
        } });
    AlertDialog dialog = builder.create(); builder.show();

}

}
```

