

Practical 7

Aim:- Create an android app that demonstrates the use of Keyboards, Input Controls, Alerts, Pickers and Options Menu.

1.DatePicker:-

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:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/button1"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true"

        android:layout_marginBottom="102dp"
        android:layout_marginLeft="30dp"
        android:layout_marginStart="30dp"
        android:text="" />

    <Button
        android:id="@+id/button1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:layout_centerHorizontal="true"
        android:layout_marginBottom="20dp"
        android:text="Change Date" />

    <DatePicker
        android:id="@+id/datePicker"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/textView1"
```

```
android:layout_centerHorizontal="true"  
android:layout_marginBottom="36dp" />
```

```
</RelativeLayout>
```

MainActivity.java:-

```
package com.example.practical7;
```

```
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;
```

```
import android.widget.DatePicker;  
import android.widget.TextView;
```

```
public class MainActivity extends AppCompatActivity {  
    DatePicker picker;  
    Button displayDate;  
    TextView textview1;
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_main);  
        textview1 = (TextView) findViewById(R.id.textview1);  
        picker = (DatePicker) findViewById(R.id.datePicker);  
        displayDate = (Button) findViewById(R.id.button1);
```

```
        textview1.setText("Current Date: " + getCurrentDate());
```

```
        displayDate.setOnClickListener(new View.OnClickListener() {
```

```
            @Override
```

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

```
                textview1.setText("Change Date: " + getCurrentDate());
```

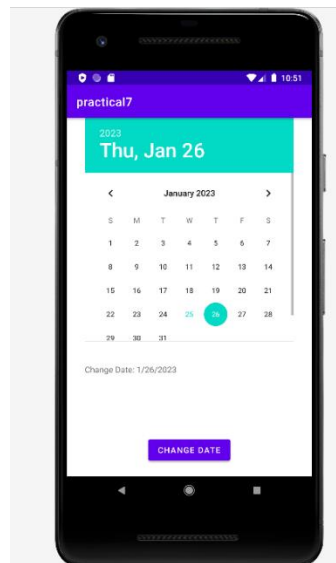
```
            }
```

```
        });
```

```
    }
```

```
public String getCurrentDate(){  
  
    StringBuilder builder=new StringBuilder();  
    builder.append((picker.getMonth() + 1)+"/");//month is 0 based  
    builder.append(picker.getDayOfMonth()+"/");  
    builder.append(picker.getYear());  
    return builder.toString();  
  
}  
}
```

Output:-



1.OptionMenu:-

MainActivity.java

```
package com.example.pract7boptionmenu;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.os.Bundle;  
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 {
```

```
    @Override
```

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

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
    }
```

```
    @Override
```

```
    public boolean onCreateOptionsMenu(Menu menu) {
```

```
        MenuInflater inflater = getMenuInflater();
```

```
        inflater.inflate(R.menu.mymenu, menu);
```

```
        return super.onCreateOptionsMenu(menu);
```

```
    }
```

```
    @Override
```

```
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
```

```
        switch (item.getItemId()) {
```

```
            case R.id.mnusetting:
```

```
                Toast.makeText(this, "Setting is selected",
```

```
                Toast.LENGTH_SHORT).show();
```

```
                return true;
```

```
            case R.id.mnuprofile:
```

```
                Toast.makeText(this, "Profile is selected",
```

```
                Toast.LENGTH_SHORT).show();
```

```
                ;
```

```
                return true;
```

```
            case R.id.mnulogout:
```

```
                Toast.makeText(this, "You have been logged out ",
```

```
                Toast.LENGTH_SHORT).show();
```

```
                ;
```

```
                return true;
```

```
            default:
```

```
                return super.onOptionsItemSelected(item);
```

```
        }
```

```
    }
```

```
}
```

activity_main.xml:-

```
<?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"
tools:context=".MainActivity">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

```
</androidx.constraintlayout.widget.ConstraintLayout>
```

Mymenu.xml:-

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/mnusetting"
        android:icon="@drawable/ic_setting"
        android:title="setting" />
    <item
        android:id="@+id/mnuprofile"
        android:icon="@drawable/ic_profile"
        android:title="profile" />
    <item
        android:id="@+id/mnulogout"
        android:icon="@drawable/ic_logout"
        android:title="logout" />
</menu>
```

Output:-

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3.Alert Box:-

MainActivity.xml:-

```
package com.example.alert;
```

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

```
import android.content.DialogInterface;
```

```
import android.os.Bundle;
```

```
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) {

    builder.setMessage(R.string.dialog_message)
.setTitle(R.string.dialog_title);

    builder.setMessage("Do you want to close 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();
}
});
}
}

```

activity_main.xml:-

```

<?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"

```

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

```
<Button  
    android:layout_width="wrap_content"  
    android:layout_height="wrap_content"  
    android:id="@+id/button"  
    android:text="Close 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>
```

Setting.xml:-

```
<resources>  
    <string name="app_name">Alert</string>  
  
    <string name="dialog_message">Welcome to Alert Dialog</string>  
    <string name="dialog_title">Javatpoint Alert Dialog</string>  
</resources>
```

Output:-

