

Ex.No: 6

Date :

## Implement an application that writes data to the SD card

### AIM:

To implement an application that writes data to the SD card.

### PROCEDURE:

1. Open Eclipse IDE.
2. Create the project Ex\_No\_6.
3. Go to package explorer in the left hand side. Select the project Ex\_No\_6.
4. Go to res folder and select layout. Double click the activity\_main.xml file.
5. Now you can see the Graphical layout window.
6. Drag and drop the following components:
  - a. Two EditTexts
  - b. Two Buttons with labeled as READ and SAVE
7. Again go to package explorer in the left hand side. Select the project Ex\_No\_6.
8. Go to src folder. Double click the MainActivity.java file.
9. In java file write the activities done by the application such as actions of buttons.
10. Get the following permission in AndroidManifest.xml file: `<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAGE" />`
11. Finally run the android application.

### PROGRAMS:

*activity\_main.xml:*

```
<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"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.ex_no_6.MainActivity" >

    <EditText
        android:id="@+id/editText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

```

        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:ems="10"
        android:hint="Path"
        tools:ignore="TextFields,HardcodedText" >

        <requestFocus />
    </EditText>

```

```

<Button
    android:id="@+id/button1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignTop="@+id/editText1"
    android:layout_toRightOf="@+id/editText1"
    android:text="READ"
    tools:ignore="HardcodedText" />

```

```

<EditText
    android:id="@+id/editText2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/editText1"
    android:layout_centerVertical="true"
    android:ems="10"
    android:hint="Contents of File"
    android:inputType="textMultiLine"
    tools:ignore="HardcodedText" />

```

```

<Button
    android:id="@+id/button2"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"

```

```

        p_content"
        android:layout_alignParent
        Right="true"
        android:layout_centerVerti
        cal="true"
        android:text="SAVE"
        tools:ignore="HardcodedTex
        t" />

    </Rel
    ative
    Layou
    t>

```

*MainActivity.java:*

```

package
com.example.ex_no_6
;
import
java.io.BufferedReader;
import
java.io.File;
import
java.io.FileNotFoundException;
import
java.io.FileReader;
import
java.io.FileWriter;
import
java.io.IOException;
import
android.support.v7.app.ActionBarAc
tivity;
import
android.annotation.SuppressLint;
import
android.content.SharedPreferences;
import android.os.Bundle; import
android.view.View;
import
android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends ActionBarActivity {
    @SuppressWarnings("SdCardPath")
    @Override
    protected void onCreate(Bundle
        savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_mai
            n);

        final EditText
        e1=(EditText)findViewById(R.id.editText1); final
        EditText

```

```

e2=(EditText)findViewById(R.id.editText2); Button
    b1=(Button)findViewById(R.id.button1);
    Button b2=(Button)findViewById(R.id.button2);
    String path=getPreferences(MODE_PRIVATE).getString("fpath",
"/sdcard/file1"); e1.setText(path); b1.setOnClickListener( new
OnClickListener()
    {
        @Override
        public void
onClick(View arg0) {
// TODO Auto-generated method stub

            File f=new File(e1.getText().toString());
String s="";
StringBuilder sb=new StringBuilder();
            FileReader fr =
null; try { fr =
new
FileReader(f);
            } catch
                (FileNotFoundException
                e) { // TODO Auto-
generated catch block
                e.printStackTrace();
            }
            BufferedReader br=new
BufferedReader(fr); try {
while((s=br.readLine())!=nu
ll)
            {
                sb.ap
pend(
s+"\n
");
            }
        } catch (IOException e) {
// TODO Auto-generated catch block
e.printStackTrace();
        }
        Toast.makeText(getApplicationContext(),
"File Read Suc-
cessfully !!!", Toast.LENGTH_LONG).show();
        e2.se
tText
(sb);
    }
}
;
b2.setOnClickListener
( new

```

```

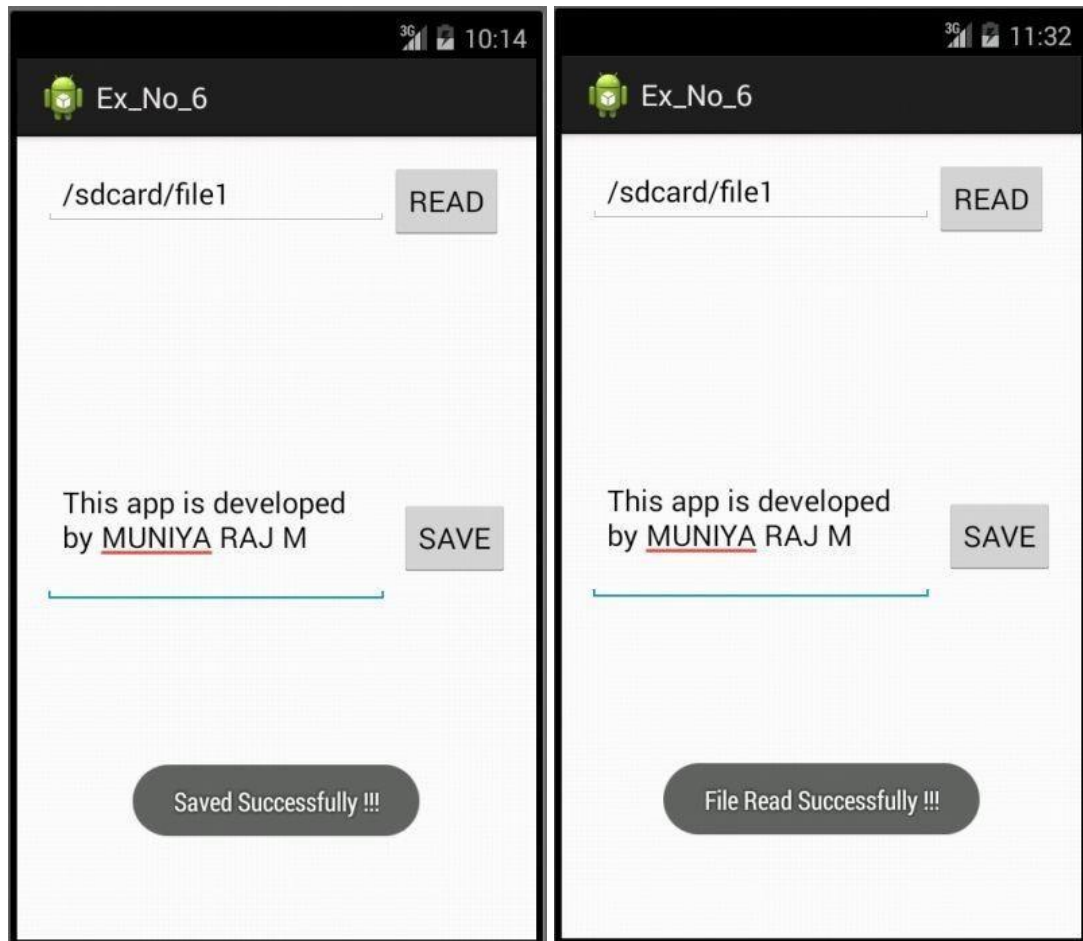
OnClickL
istener(
)
{
    @Override
    public void
onClick(View arg0) {
    // TODO Auto-generated method stub

        File f=new File(e1.getText().toString());
        File-
        Writer fw =
        null; try { fw =
        new
        FileWriter(f);
    } catch (IOException e3) {
        // TODO Auto-generated catch block
        e3.printStackTrace();
    } try {
        fw.write(e2.getText().toStr
        ing());
    } catch (IOException e2) {
        // TODO Auto-generated catch block
        e2.printStackTrace();
    }
    try
    {
        f
        w
        .
        c
        l
        o
        s
        e
        (
        )
        ;
    } catch (IOException e2) {
        // TODO Auto-generated catch block
        e2.printStackTrace();
    }
    SharedPreferences.Editor e=getPreferences(MODE_PRIVATE).edit();
    e.putString("fpath", f.getPath());
    e.commit();
    Toast.makeText(getApplicationContext(),
    "Saved
    Successfully !!!", Toast.LENGTH_LONG).show();
    }
    });
}

```

}

## OUTPUT:



**RESULT:**

Thus the application that writes data to the SD card has been implemented and the output was verified.