17CS3652B MOBILE APPLICATION DEVELOPMENT LABORATORY

Roll No: 198W1A05C0

Section: CSE-3

Sheet:

Date:

Lab Session No.: 09

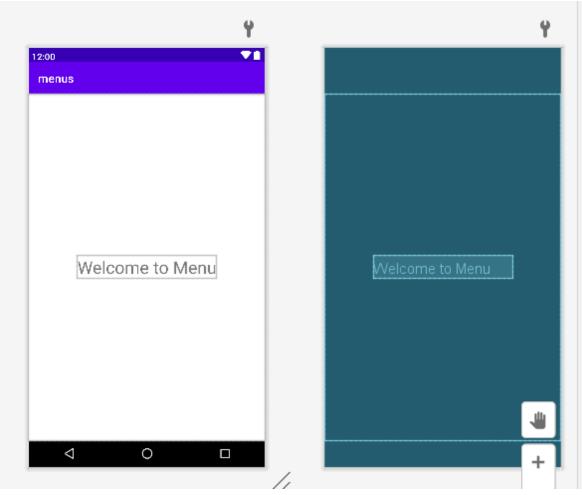
Aim:

Develop an android application to implement user interface by using Android Menus.

Software's /IDE Tools:

Android Development Kit / Android Studio

Application User interface design:



Lab Session No.: 09 V.R.SIDDHARTHA ENGINEERING COLLEGE Topic: Android Menus

Application Programming Interface:

API / PACKAGE	CLASSES / INTERFACES	METHODS	DESCRIPTION
import androidx. appcomp at.app.Ap pCompat Activity;	AppCompatActi vity	protected void onCreate(Bundle savedInstanceState)	onCreate(Bundle) is where you initialize your activity. When Activity is started and application is not loaded, then both onCreate() methods will be called.
import android.w idget.Edit Text;	EditText	getText()	Determines the minimum type that getText() will return. If set, specifies that this TextView has a textual input method and should automatically capitalize what the user types.

Code/Implementation:

```
// Develop an android application that converts text to speech.
```

```
// Project Name : ShareMyApp
/*
```

Lab Session No. : 09

Author : T.Avinash

Date :

Roll Number : 198W1A05C0
Description : Menuapp

Softwares required : Android Studio

Topics Covered : Options menu, context menu

*/

MainActivity.java

```
package com.eswar.menus;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.view.menu.MenuBuilder;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.Menu;
import android.view.Menu;
```

```
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);
    @SuppressLint("RestrictedAPI")
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater=getMenuInflater();
        inflater.inflate(R.menu.menu options, menu);
        MenuBuilder mn=(MenuBuilder) menu;
        mn.setOptionalIconsVisible(true);
        return true;
    }
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        Toast.makeText(this, "Select Item: "+item.getTitle(),
Toast.LENGTH SHORT) .show();
        switch (item.getItemId())
            case R.id.upload:
                Toast.makeText(this, "File Uploaded "+item.getTitle(),
Toast.LENGTH SHORT).show();
                return true;
            case R.id.download:
                Toast.makeText(this, "File downloaded "+item.getTitle(),
Toast.LENGTH SHORT).show();
                return true;
            case R.id.share:
                Toast.makeText(this, "File shared "+item.getTitle(),
Toast.LENGTH SHORT).show();
                return true;
            case R.id.exit:
                System.exit(0);
            case R.id.settings:
                Toast.makeText(this, "Clicked on settings "+item.getTitle(),
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</pre>
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="Welcome to Menu"
        android:textSize="30dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintLeft toLeftOf="parent"
        app:layout constraintRight toRightOf="parent"
        app:layout constraintTop toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
menu_options.xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto">
    <item
        android:id="@+id/share"
        android:icon="@drawable/ic share"
        android:title="Share"/>
    <item
        android:id="@+id/upload"
        android:icon="@drawable/ic upload"
        android:title="Upload"/>
    <item
        android:id="@+id/download"
        android:icon="@drawable/ic download"
        android:title="Download"/>
    <item
        android:id="@+id/settings"
        android:icon="@drawable/ic settings"
        android:title="Settings"/>
    <item
        android:id="@+id/exit"
        android:icon="@drawable/ic exit"
        android:title="Exit"/>
</menu>
ic download.xml
<vector xmlns:android="http://schemas.android.com/apk/res/android"</pre>
        android:width="24dp"
        android:height="24dp"
        android:viewportWidth="24"
        android:viewportHeight="24">
        android:pathData="M17.6,11.48 L19.44,8.3a0.63,0.63 0,0 0,-1.09 -
0.631-1.88,3.24a11.43,11.43 0,0 0,-8.94 0L5.65,7.67a0.63,0.63 0,0 0,-1.09
0.63L6.4,11.48A10.81,10.81 0,0 0,1 20L23,20A10.81,10.81 0,0 0,17.6
11.48ZM7,17.25A1.25,1.25 0,1 1,8.25 16,1.25 1.25,0 0,1
7,17.25ZM17,17.25A1.25,1.25 0,1 1,18.25 16,1.25 1.25,0 0,1 17,17.25Z"
```

```
android:fillColor="#FF000000"/>
</re>
ic exit.xml
<vector android:height="24dp" android:tint="#FF4545"</pre>
        android:viewportHeight="24" android:viewportWidth="24"
        android:width="24dp"
xmlns:android="http://schemas.android.com/apk/res/android">
        <path android:fillColor="@android:color/white"</pre>
android:pathData="M10.09,15.59L11.5,1715,-5 -5,-5 -
1.41,1.41L12.67,11H3v2h9.671-2.58,2.59zM19,3H5c-1.11,0 -2,0.9 -
2,2v4h2V5h14v14H5v-4H3v4c0,1.1 0.89,2 2,2h14c1.1,0 2,-0.9 2,-2V5c0,-1.1 -
0.9, -2 -2, -2z''/>
</vector>
ic settings.xml
<vector android:height="24dp" android:tint="#FF4545"</pre>
        android:viewportHeight="24" android:viewportWidth="24"
       android:width="24dp"
xmlns:android="http://schemas.android.com/apk/res/android">
        <path android:fillColor="@android:color/white"</pre>
android:pathData="M19.14,12.94c0.04,-0.3 0.06,-0.61 0.06,-0.94c0,-0.32 -
0.02, -0.64 -0.07, -0.9412.03, -1.58c0.18, -0.14 0.23, -0.41 0.12, -0.611-1.92, -0.611-1.92
3.32c-0.12, -0.22 -0.37, -0.29 -0.59, -0.221-2.39, 0.96c-0.5, -0.38 -1.03, -0.7 -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.59, -0.5
1.62, -0.94L14.4, 2.81c-0.04, -0.24, -0.24, -0.41, -0.48, -0.41h-3.84c-0.24, 0
0.43,0.17 -0.47,0.41L9.25,5.35C8.66,5.59 8.12,5.92 7.63,6.29L5.24,5.33c-
0.22,-0.08 -0.47,0 -0.59,0.22L2.74,8.87C2.62,9.08 2.66,9.34
2.86, 9.4812.03, 1.58C4.84, 11.36 4.8, 11.69 4.8, 12s0.02, 0.64 0.07, 0.941-
2.03, 1.58c - 0.18, 0.14 - 0.23, 0.41 - 0.12, 0.6111.92, 3.32c0.12, 0.22 0.37, 0.29
0.59,0.2212.39,-0.96c0.5,0.38 1.03,0.7 1.62,0.9410.36,2.54c0.05,0.24
0.24,0.41 0.48,0.41h3.84c0.24,0 0.44,-0.17 0.47,-0.41l0.36,-2.54c0.59,-0.24
1.13,-0.56 1.62,-0.9412.39,0.96c0.22,0.08 0.47,0 0.59,-0.2211.92,-3.32c0.12,-
0.22\ 0.07, -0.47\ -0.12, -0.61L19.14,12.94zM12,15.6c-1.98,0 -3.6,-1.62 -3.6,-
3.6s1.62,-3.6 3.6,-3.6s3.6,1.62 3.6,3.6s13.98,15.6 12,15.6z"/>
</vector>
ic share.xml
<vector android:height="24dp" android:tint="#FF4545"</pre>
       android:viewportHeight="24" android:viewportWidth="24"
       android:width="24dp"
xmlns:android="http://schemas.android.com/apk/res/android">
        <path android:fillColor="@android:color/white"</pre>
android:pathData="M18,16.08c-0.76,0 -1.44,0.3 -1.96,0.77L8.91,12.7c0.05,-0.23
0.09, -0.46 \ 0.09, -0.7s - 0.04, -0.47 \ -0.09, -0.717.05, -4.11c0.54, 0.5 \ 1.25, 0.81
2.04,0.81 1.66,0 3,-1.34 3,-3s-1.34,-3 -3,-3 -3,1.34 -3,3c0,0.24 0.04,0.47
0.09, 0.718.04, 9.81C7.5, 9.31 6.79, 9 6, 9c-1.66, 0 -3, 1.34 -3, 3s1.34, 3 3, 3c0.79, 0
```

ic upload.xml

</vector>

Topic: Android Menus

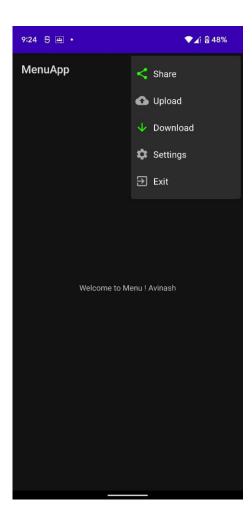
1.5, -0.31 2.04, -0.8117.12, 4.16c-0.05, 0.21 -0.08, 0.43 -0.08, 0.65 0, 1.61

1.31,2.92 2.92,2.92 1.61,0 2.92,-1.31 2.92,-2.92s-1.31,-2.92 -2.92,-2.92z"/>

```
<vector android:height="24dp" android:tint="#FF4545"</pre>
    android:viewportHeight="24" android:viewportWidth="24"
    android:width="24dp"
xmlns:android="http://schemas.android.com/apk/res/android">
    <path android:fillColor="@android:color/white"</pre>
android:pathData="M19.35,10.04C18.67,6.59 15.64,4 12,4 9.11,4 6.6,5.64
5.35,8.04 2.34,8.36 0,10.91 0,14c0,3.31 2.69,6 6,6h13c2.76,0 5,-2.24 5,-5 0,-
2.64 - 2.05, -4.78 - 4.65, -4.96zM14, 13v4h-4v-4H715, -5 5, 5h-3z"/>
</vector>
```

Output:





Result:

Demonstration of the Menus app is done successfully.