Experiment-9

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SECTION: 902/A	BRANCH: B.E CSE
SUBJECT: MAD LAB	**Subject Code:** 20CSP-356

AIM:- Design the Android application using menus and action bar.

CODE

File: Activity_main.xml

```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">


<TextViewandroid: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>
```

File: menu.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<menu xmlns:android="http://schemas.android.com/apk/res/android">   <item
android:id="@+id/file" android:title="File">

<menu>

<item android:id="@+id/status" android:title="Status"></item>

  <item android:id="@+id/call" android:title="Calls"></item>


</menu>


</item>
```

```xml
<item android:id="@+id/coding" android:title="Coding"></item>

    <item android:id="@+id/programming" android:title="Programming"></item>

</menu>
```
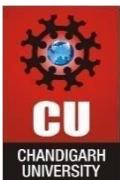
File: MainActivity.java

```java
package com.example.experiment9_menu;

import androidx.annotation.NonNull;
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;
import java.util.zip.Inflater;

public class MainActivity extends AppCompatActivity {

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

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        switch(item.getItemId()){ case R.id.coding:
                Toast.makeText(MainActivity.this, "Coding",
        Toast.LENGTH_SHORT).show(); return true;

case R.id.programming:

                Toast.makeText(MainActivity.this, "Programming",
```

```java
Toast.LENGTH_SHORT).show();
            return true;

        case R.id.status:
            Toast.makeText(MainActivity.this, "Status",
Toast.LENGTH_SHORT).show();
            return true;

        case R.id.call:
            Toast.makeText(MainActivity.this, "Call",
Toast.LENGTH_SHORT).show();
            return true;

        default:
            return super.onOptionsItemSelected(item);
    }
}

@Override
public boolean onCreatePanelMenu(int featureId, @NonNull Menu menu) {
    MenuInflater inflater=getMenuInflater();
    inflater.inflate(R.menu.menu, menu);
    return true;
}
}
```

Output
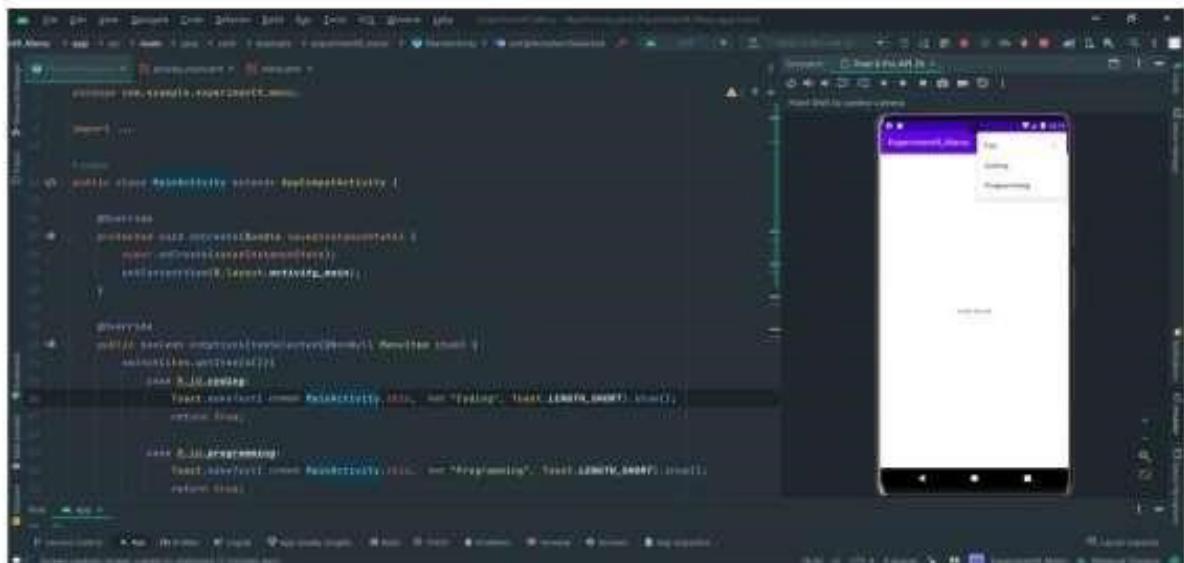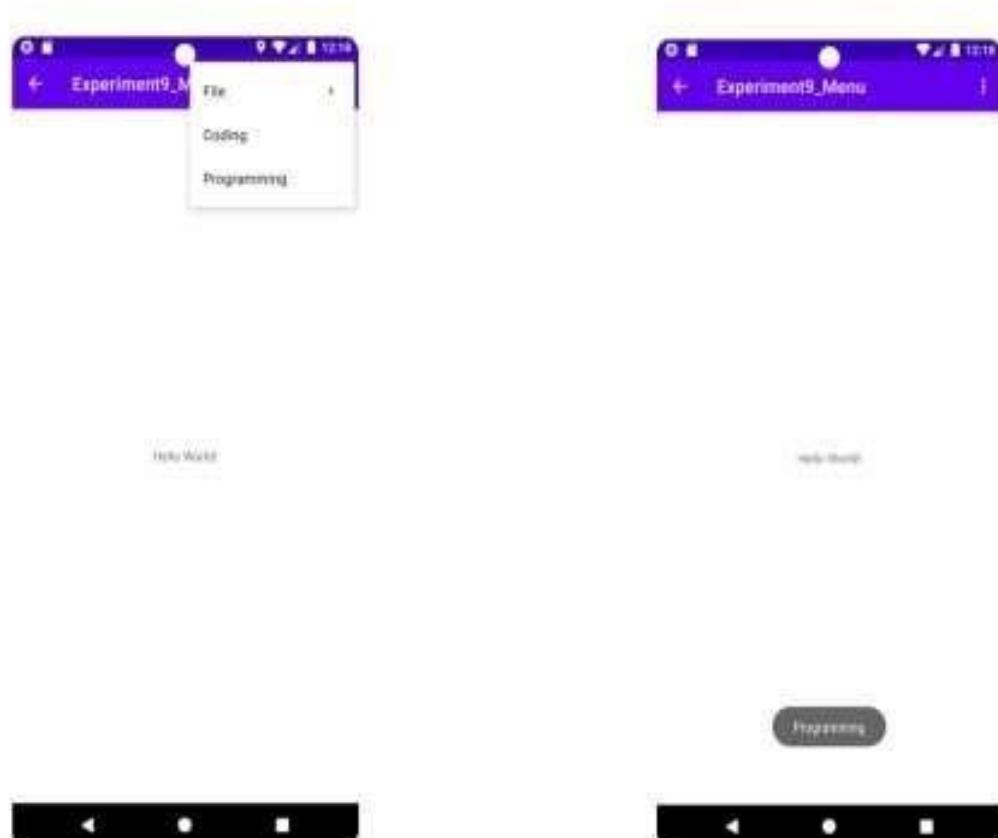
Learning Outcome

1.) Learnt how to design application using xml coding.
2.) Learnt about menus in android.
3.) Learnt how to implement menus and nested menus using android studio.
4.) Learnt about which code should be implemented in xml and which should be implemented in xml to make an android application.