



**DEPARTMENT OF**

**COMPUTER SCIENCE AND ENGINEERING**

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### Experiment 9

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**Subject Code: 20CSP-356**

### AIM

Design the Android application using menus and action bar.

### CODE

#### **File: 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>
```

#### **File: menu.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">

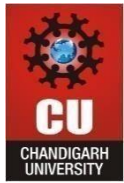
<menu>

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

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

</menu>

</item>
```



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

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

```
</menu>
```

### **File: MainActivity.java**

```
package com.example.experiment9_menu;

import androidx.annotation.NonNull; import
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle; import android.view.Menu; import
import android.view.MenuInflater; import android.view.MenuItem;
import
import android.widget.Toast; import java.util.zip.Inflater; public class
MainActivit
y
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",
```

```

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

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

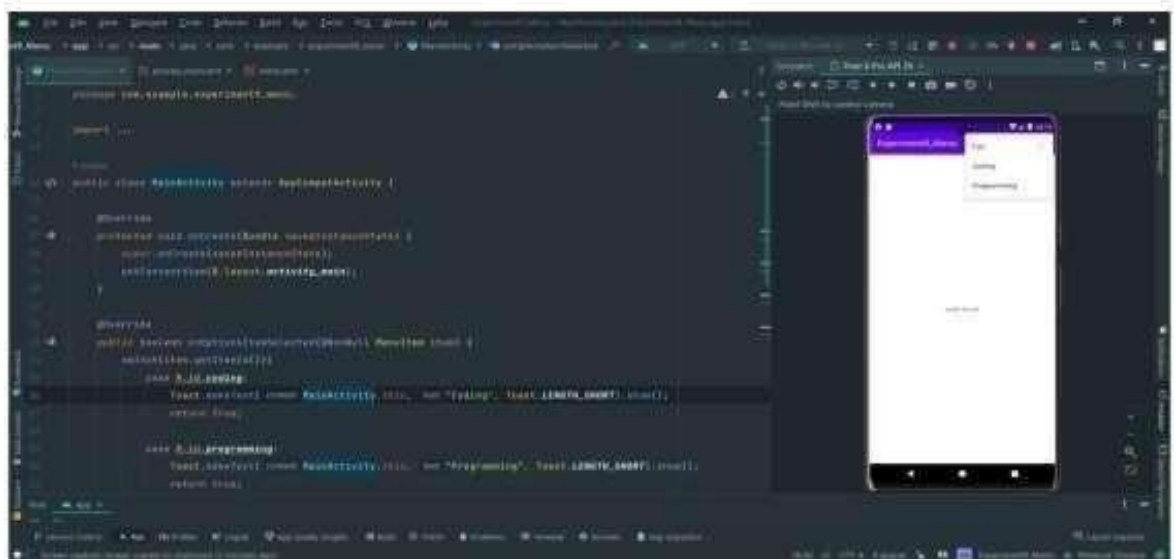
        case R.id.call:
            Toast.makeText(MainActivity.this, "Call",
Toast.LENGTH_SHORT).show();
            return true;

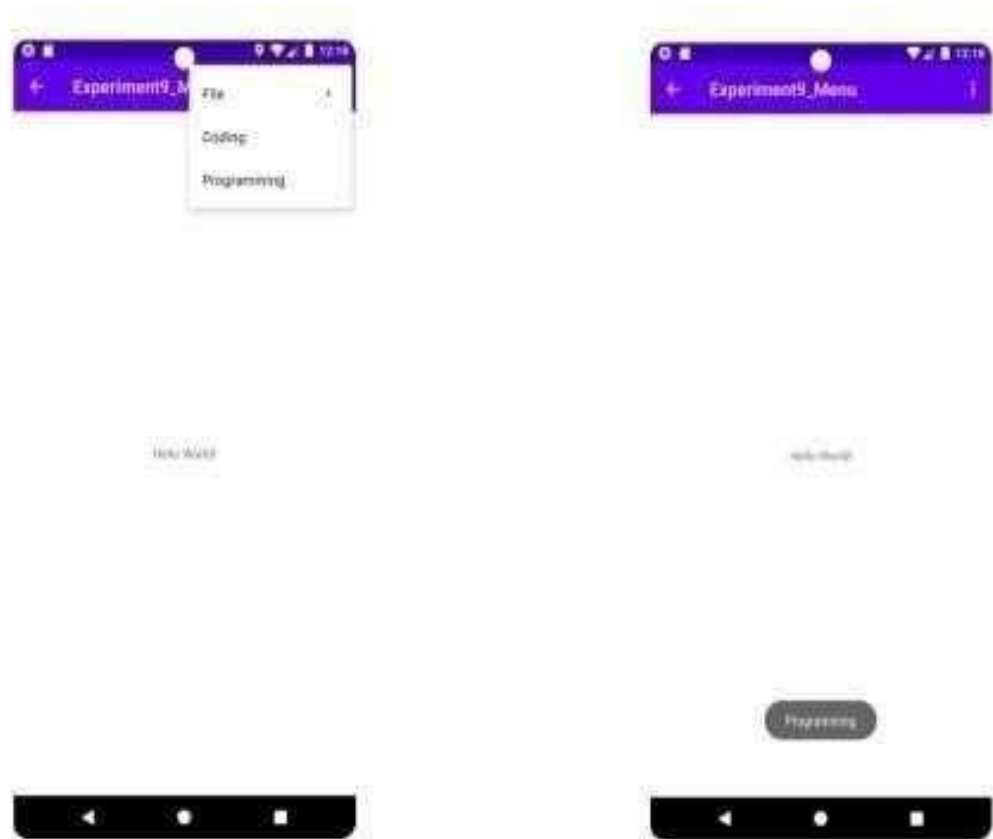
        default:
            return super.onOptionsItemSelected(item);
    }
}

@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 java to make an android application.