Experiment – 3.3

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Subject Name: Mobile Application Development Lab
Subject Code: 20CSP-356

Aim:

Design the Android application using menus and action bar.

Objective 1:

- Design the Android application using menus.

Code:

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=" Basic
      menus experiment"
      app:layout_constraintBottom_toBottomOf="parent
      "
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

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

Main_Activity.java:

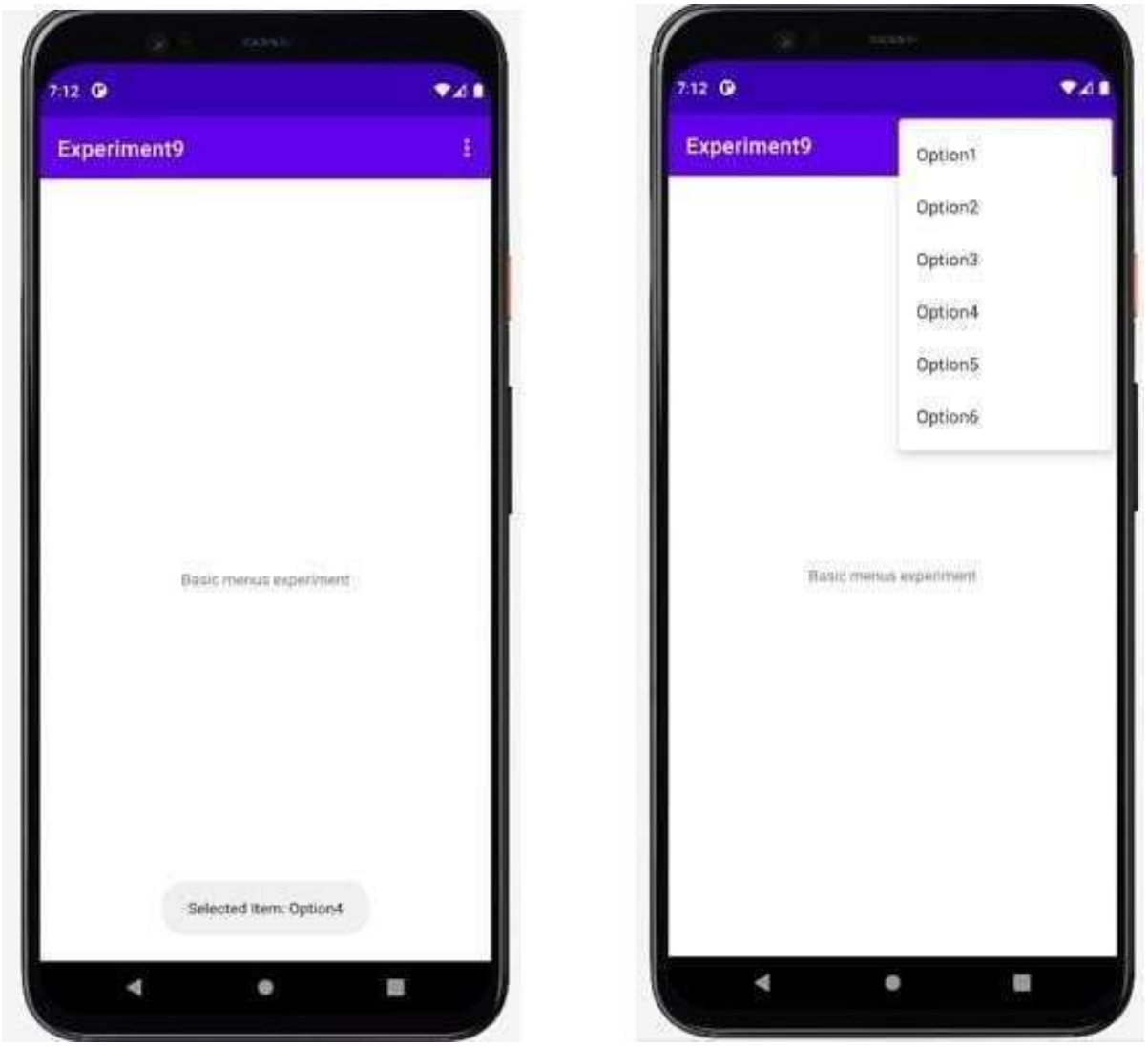
```
package com.example.experiment9;

import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;  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);
   }
   @Override
   public boolean onCreateOptionsMenu(Menu menu) {
getMenuInflater()
            .inflate(R.menu.options_menu, menu);
return true;
   }
   @Override
   public boolean onOptionsItemSelected(MenuItem item) {
      Toast.makeText(this, "Selected Item: " + item.getTitle(), Toast.LENGTH_SHORT).show(); switch
(item.getItemId()) {
 case R.id.search_item:   return true;    case  R.id.upload_item:    return
true;    case
   R.id.copy_item:          return true;          case
 R.id.print_item:  return true;  case  R.id.share_item:  return true;
case
      R.id.bookmark_item:  return true;
                     default: return
         super.onOptionsItemSelected(item); }


}
}
```

Options_menu.xml file

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android" >
   <item android:id="@+id/search_item"
android:title="Option1" />
   <item android:id="@+id/upload_item"
android:title="Option2" />
   <item android:id="@+id/copy_item"
android:title="Option3" />  <item
android:id="@+id/print_item"
android:title="Option4" />  <item
android:id="@+id/share_item"
android:title="Option5" />
   <item android:id="@+id/bookmark_item"
android:title="Option6" /> </menu>
```

Output:



Objective 2: - Design the Android application using action bar.

Code:

activity_main.xml:

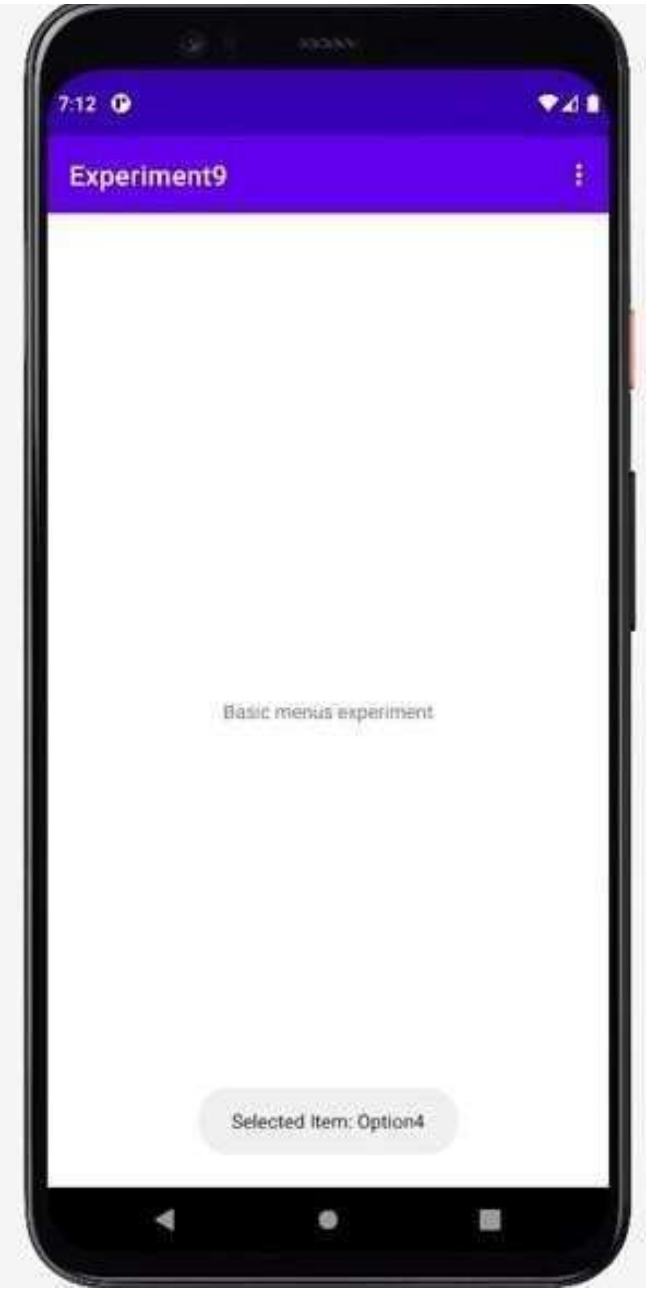
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".MainActivity">

<TextView android:layout_width="wrap_content"
android:layout_height="wrap_content" android:text
   Basic back button experiment"
```

```
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

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

Main_Activity.java:

```
package com.example.experiment9; import
android.os.Bundle;

import android.view.MenuItem; import
androidx.annotation.NonNull; import
androidx.appcompat.app.ActionBar;  import
androidx.appcompat.app.AppCompatActivity; public
class MainActivity extends AppCompatActivity {

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

        // calling the action bar
        ActionBar actionBar = getSupportActionBar();


        // showing the back button in action bar
    actionBar.setDisplayHomeAsUpEnabled(true); }


    // this event will enable the back
    // function to the button on press
    @Override  public boolean
    onOptionsItemSelected(@NonNull MenuItem
item) { switch (item.getItemId()) { case android.R.id.home:
this.finish();  return true;
        }
        return super.onOptionsItemSelected(item);
    }
}
```

Output:


7:12
Experiment9
Basic menus experiment
Selected Item: Option4