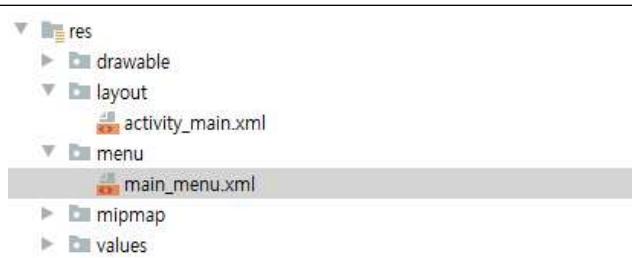
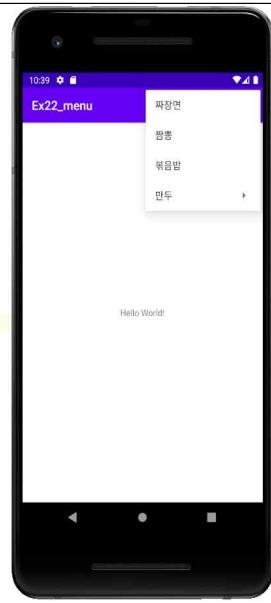
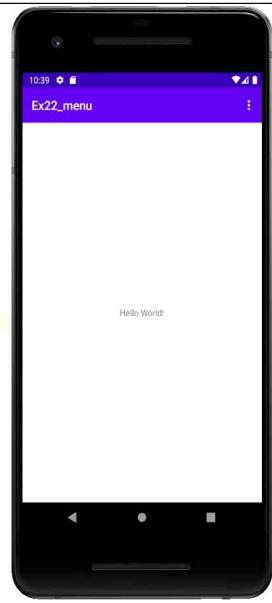


```

public class MainActivity extends AppCompatActivity {
    // 옵션 메뉴 : 주메뉴, 메뉴 버튼을 클릭하면 나오는 메뉴
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    // res/layout/activity_main.xml에는 아무것도 하지 않음
    // 옵션메뉴 만들기
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // groupid, itemid, order, title
        MenuItem item = menu.add(0, 0, 0, "짜장면");
        menu.add(0, 1, 0, "짬뽕");
        menu.add(0, 2, 0, "볶음밥");
        SubMenu sm = menu.addSubMenu("만두");
        sm.add(0, 3, 0, "물만두");
        sm.add(0, 4, 0, "군만두");
        return super.onCreateOptionsMenu(menu);
    }
    // 옵션메뉴 이벤트
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        // MenuItem item : 선택된 메뉴가 넘어온다.
        Toast.makeText(this, item.getTitle() + " 선택", Toast.LENGTH_SHORT).show();
        return super.onOptionsItemSelected(item);
    }
}

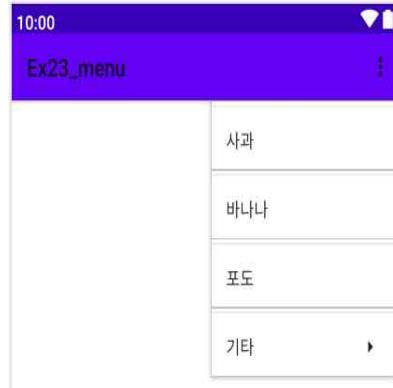
```



```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
<item android:title="사과"
      android:id="@+id/apple" />
<item android:title="바나나"
      android:id="@+id/banana" />
<item android:title="포도"
      android:id="@+id/grape" />
<item android:title="기타" >
<menu>
<item android:title="망고"
      android:id="@+id/mango" />
<item android:title="두리안"
      android:id="@+id/durio" />
</menu>
</item>
</menu>

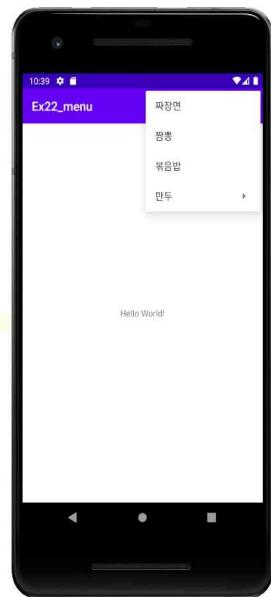
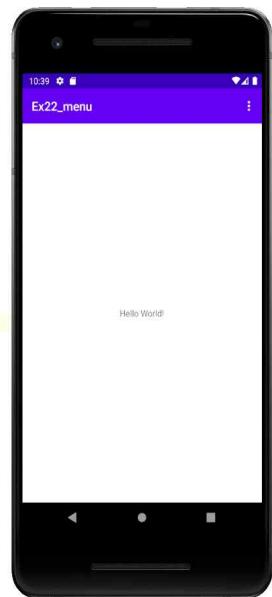
```



```

public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    // xml에서 메뉴를 만들어서 호출
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.main_menu, menu);
        return super.onCreateOptionsMenu(menu);
    }
    // 메뉴이벤트
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        String msg = "";
        switch (item.getItemId()) {
            case R.id.apple: msg = "사과"; break;
            case R.id.banana: msg = "바나나"; break;
            case R.id.grape: msg = "포도"; break;
            case R.id.mango: msg = "망고"; break;
            case R.id.durio: msg = "두리안"; break;
        }
        Toast.makeText(this, msg + " 선택", Toast.LENGTH_SHORT).show();
        return super.onOptionsItemSelected(item);
    }
}

```

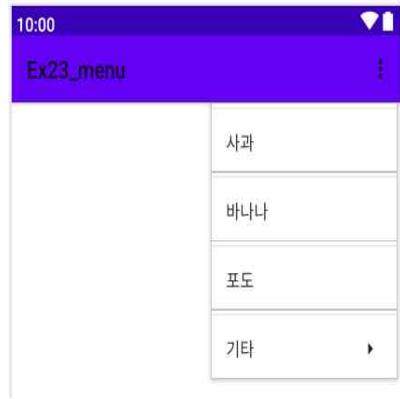


res

- drawable
- layout
- menu

popup_menu.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
<item android:title="사과"
      android:id="@+id/apple" />
<item android:title="바나나"
      android:id="@+id/banana" />
<item android:title="포도"
      android:id="@+id/grape" />
<item android:title="기타" >
</menu>
<item android:title="망고"
      android:id="@+id/mango" />
<item android:title="두리안"
      android:id="@+id/durio" />
</menu>
</item>
</menu>
```



```
public class MainActivity extends AppCompatActivity {
    Button button1, button2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        button1 = findViewById(R.id.button1);
        button2 = findViewById(R.id.button2);

        // 팝업메뉴
        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                PopupMenu popupMenu = new PopupMenu(MainActivity.this, view);
                popupMenu.getMenuInflater().inflate(R.menu.popup_menu, popupMenu.getMenu());
                popupMenu.show();
                popupMenu.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {
                    @Override
                    public boolean onMenuItemClick(MenuItem menuItem) {
                        String msg = "";
                        switch (menuItem.getItemId()) {
                            case R.id.apple: msg = "사과"; break;
                            case R.id.banana: msg = "바나나"; break;
                            case R.id.grape: msg = "포도"; break;
                            case R.id.mango: msg = "망고"; break;
                            case R.id.durio: msg = "두리안"; break;
                        }
                        Toast.makeText(MainActivity.this, msg + " 선택", Toast.LENGTH_SHORT).show();
                        return false;
                    }
                });
            }
        });
        button2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                new AlertDialog.Builder(MainActivity.this)
                    .setTitle("종료메세지")
                    .setMessage("정말 종료 할까요?")
                    .setIcon(R.mipmap.ic_launcher)
                    .setPositiveButton("예", new DialogInterface.OnClickListener() {
                        @Override
                        public void onClick(DialogInterface dialogInterface, int i) {
                            finish();
                        }
                    })
                    .setNegativeButton("아니오", null)
                    .show();
            }
        });
    }
}
```

