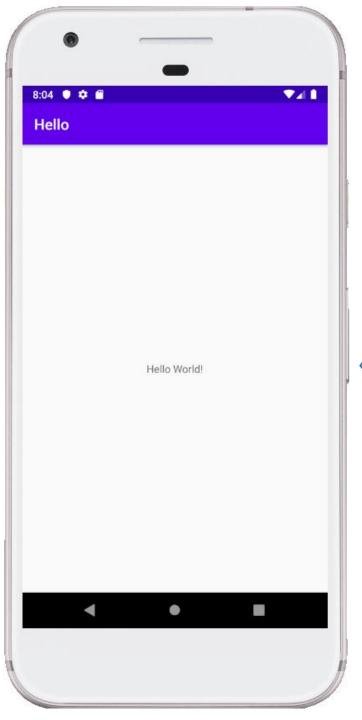


01

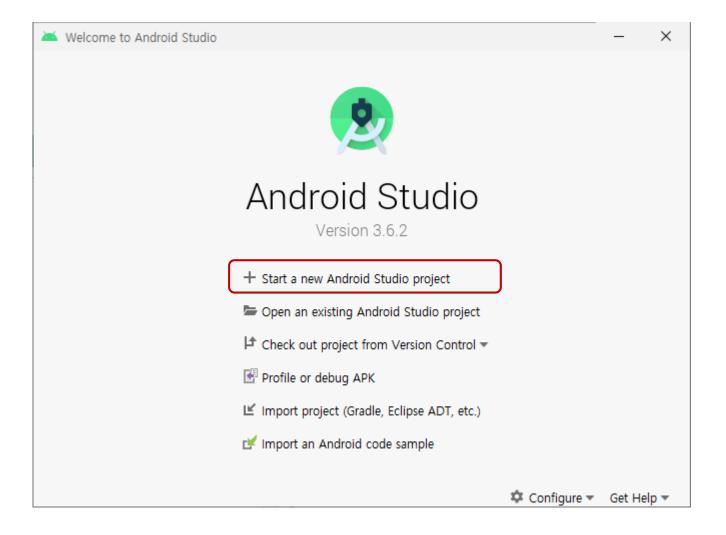
안드로이드 어플리케이션 만들기





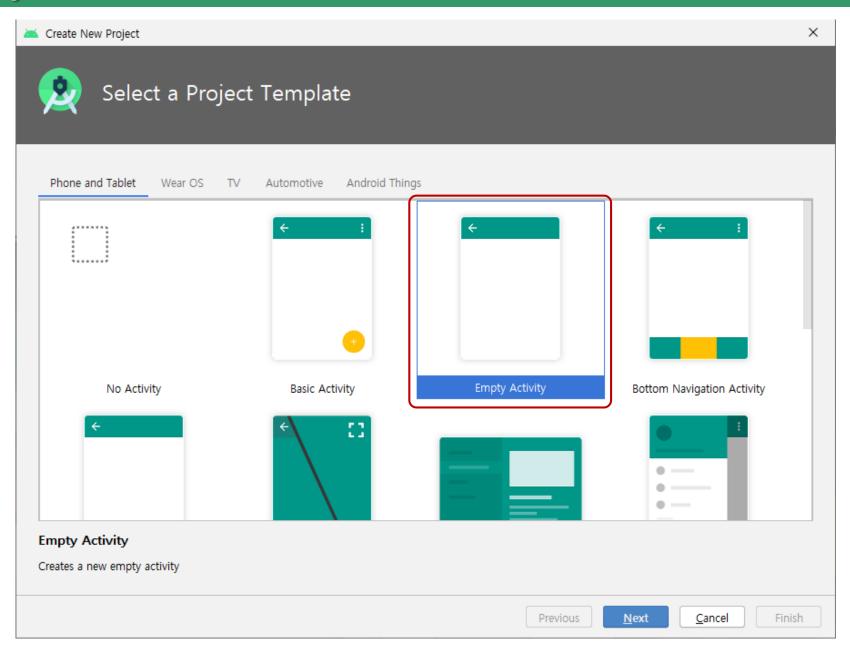
Hello World! 출력

Start a new Android Studio project

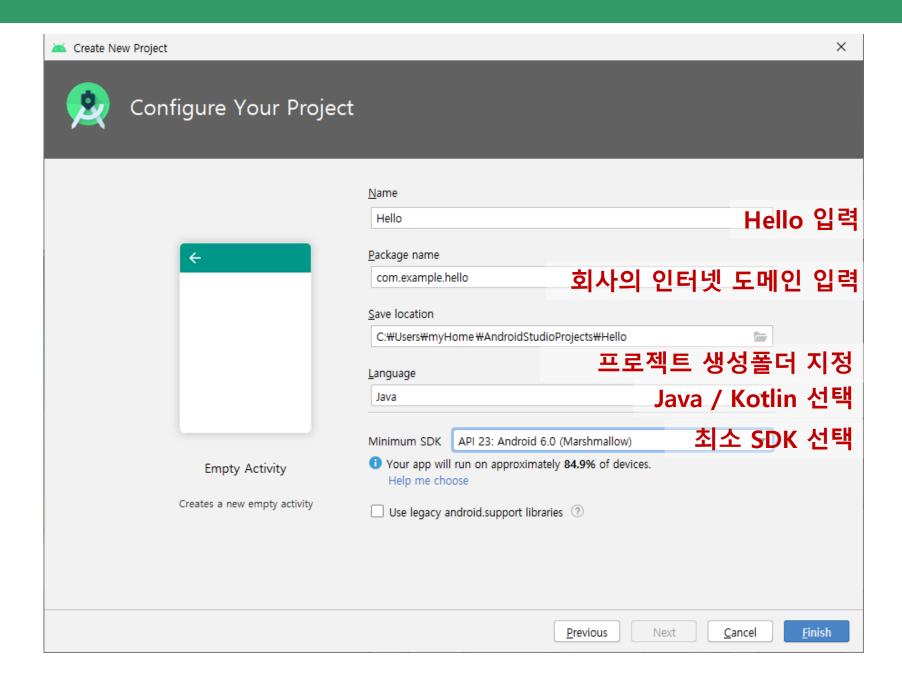




Empty Activity

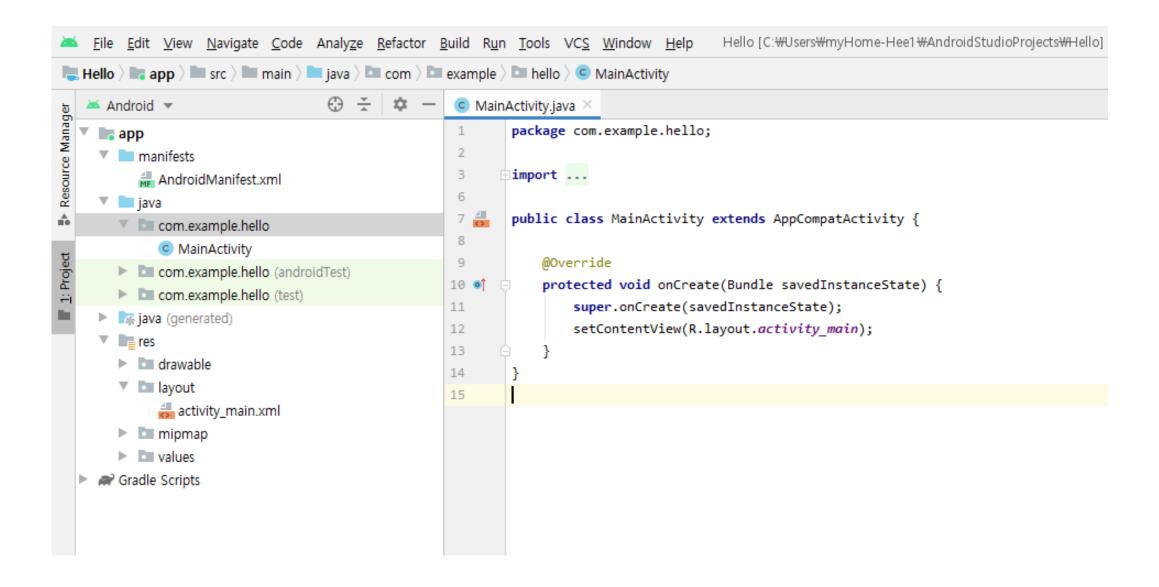




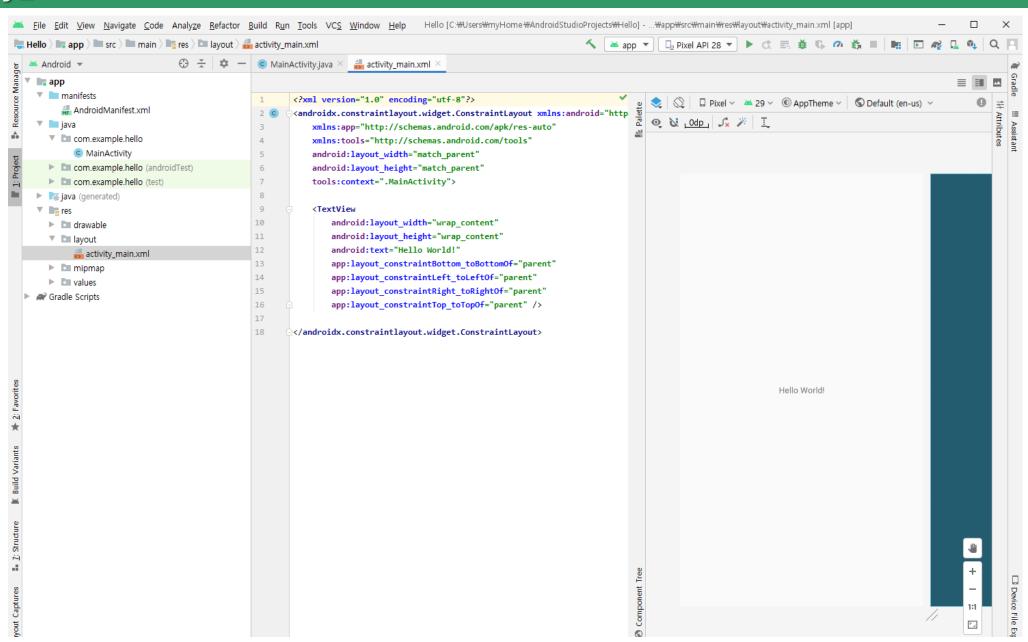




MainActivity.java

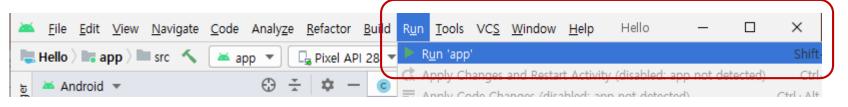




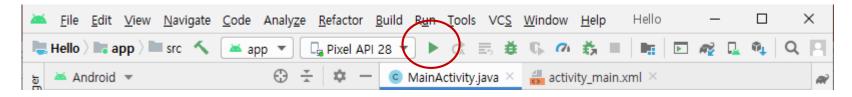




■ 메뉴 → Run → Run 'app'

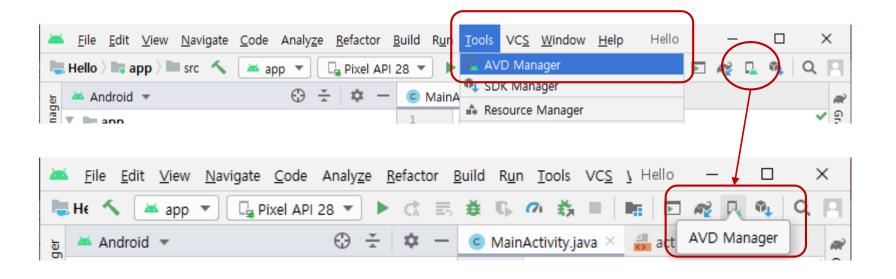


■ 단축아이콘 클릭

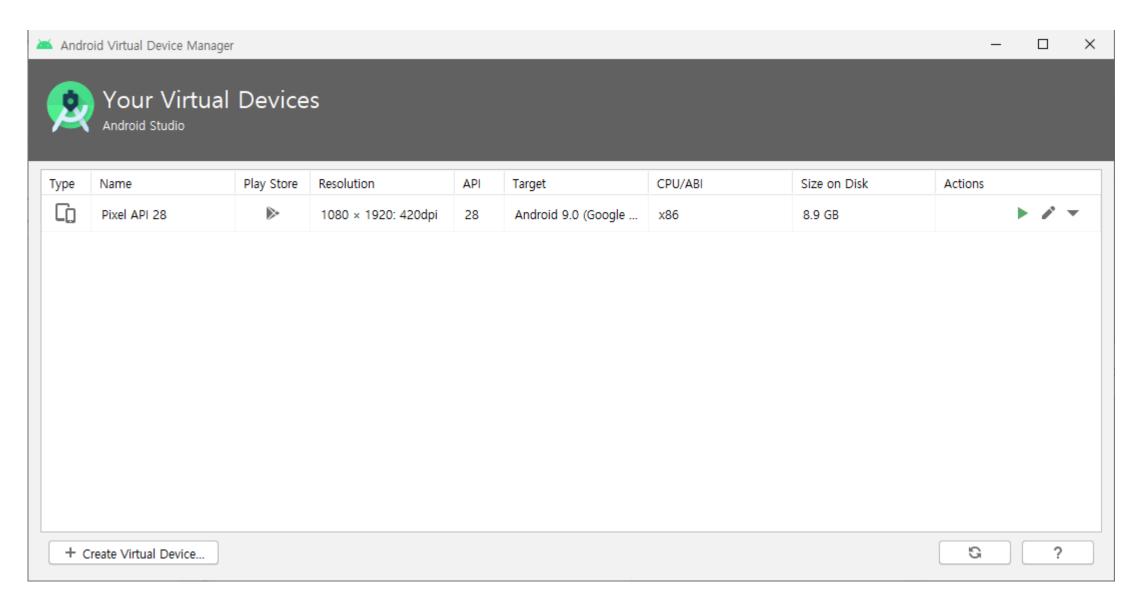




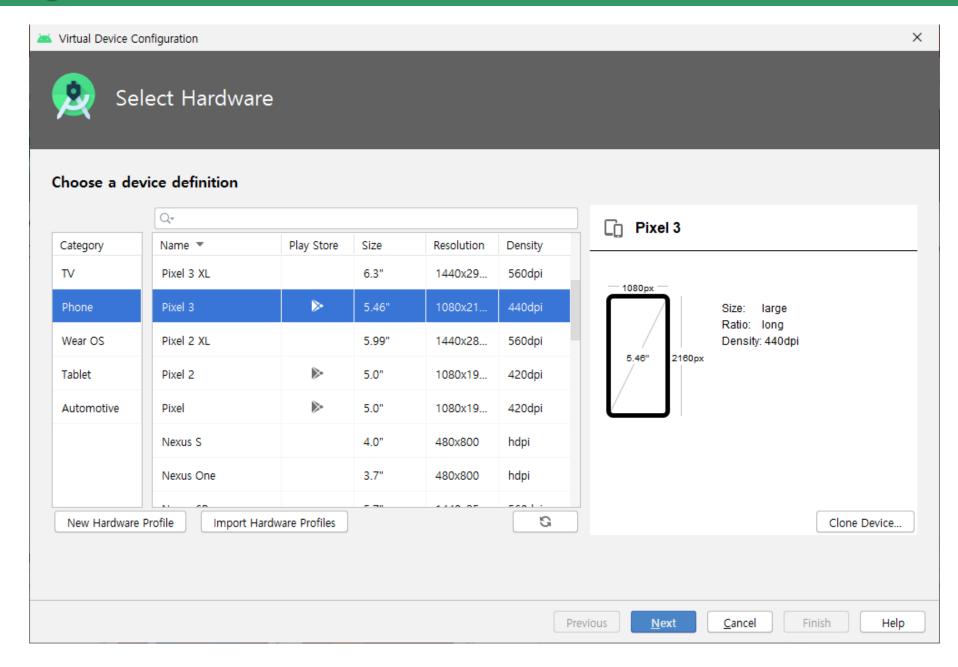




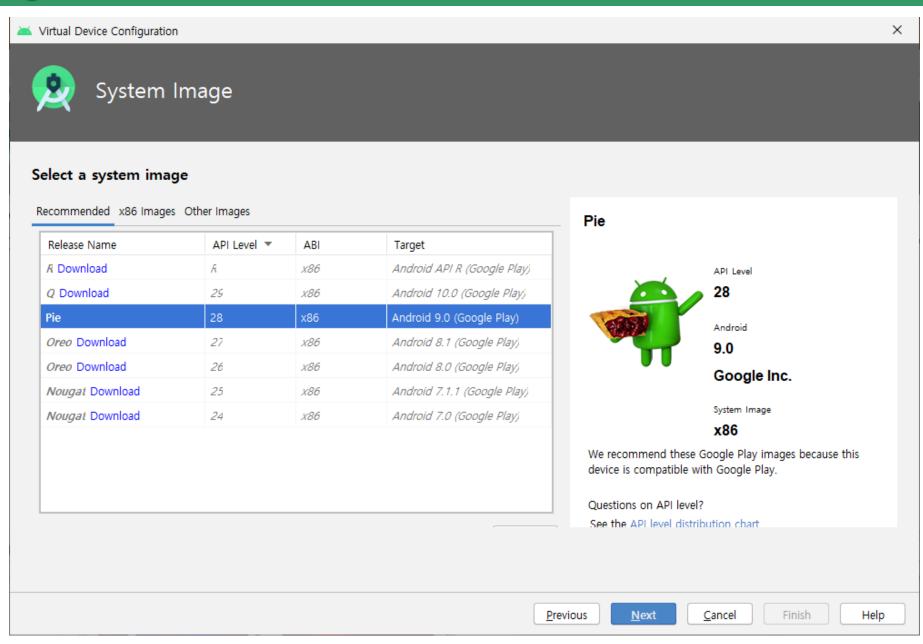




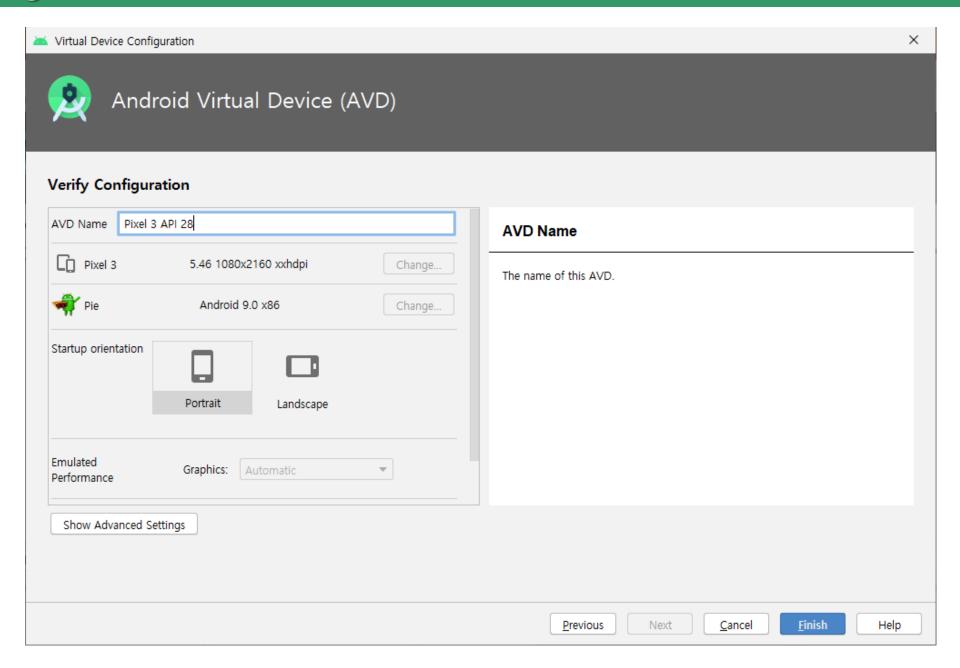




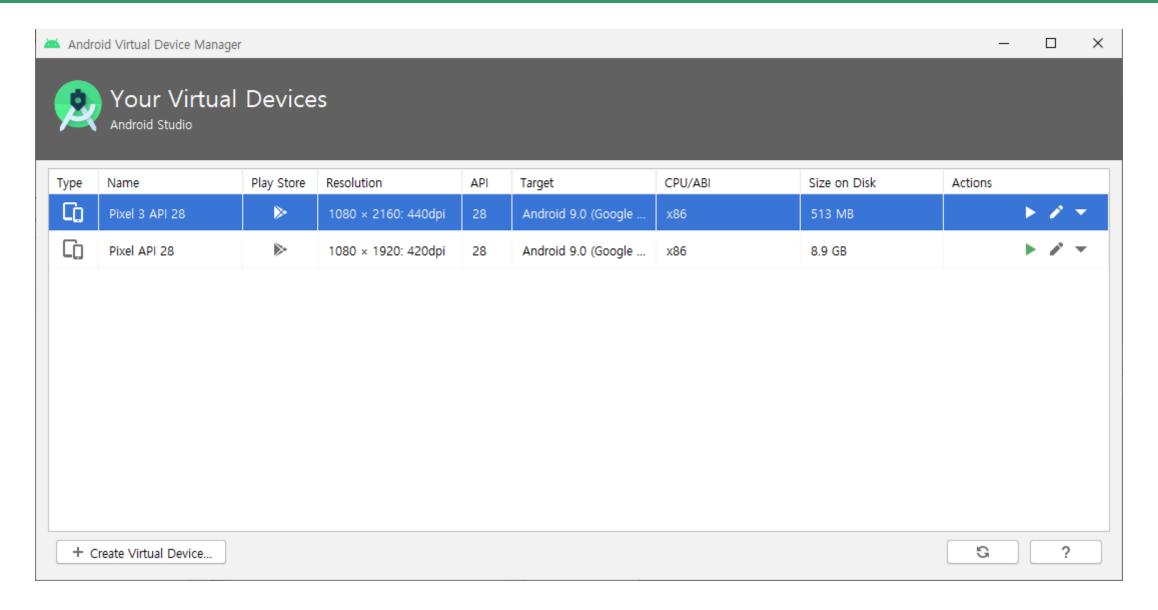




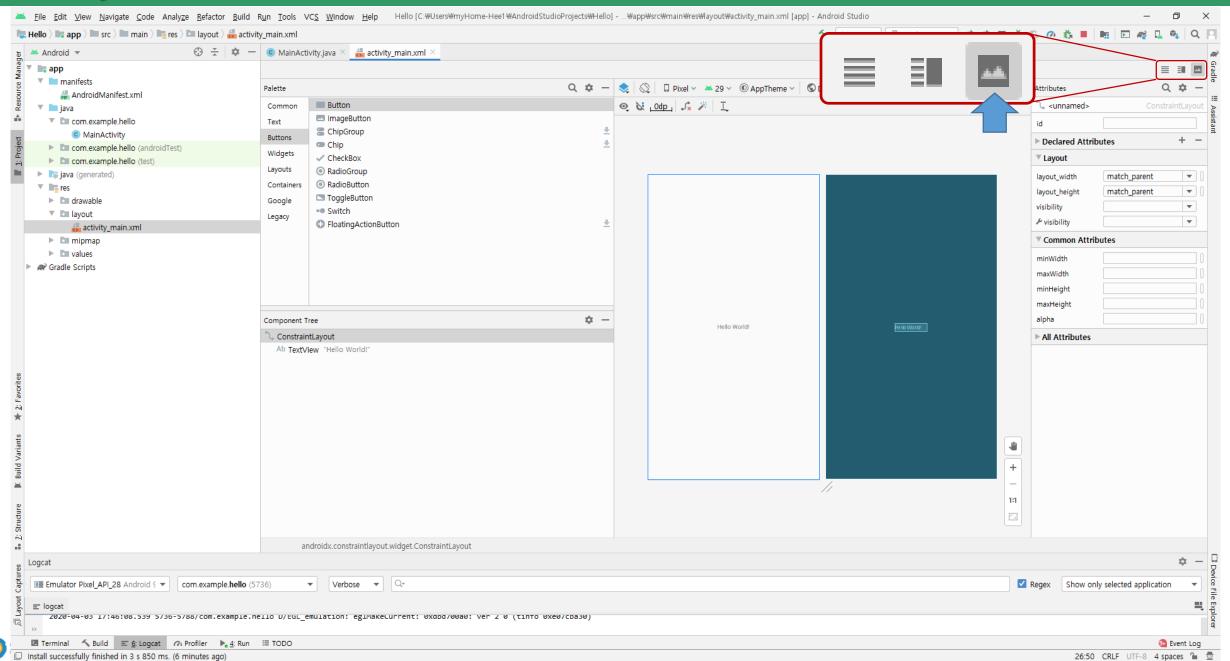


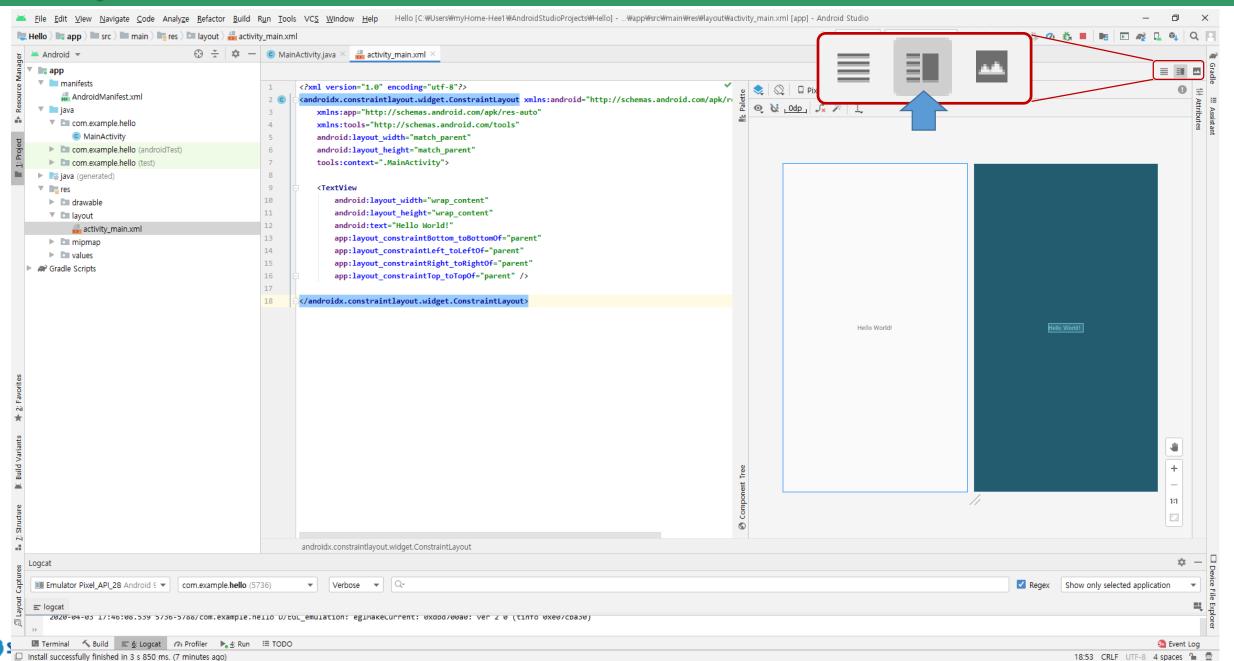


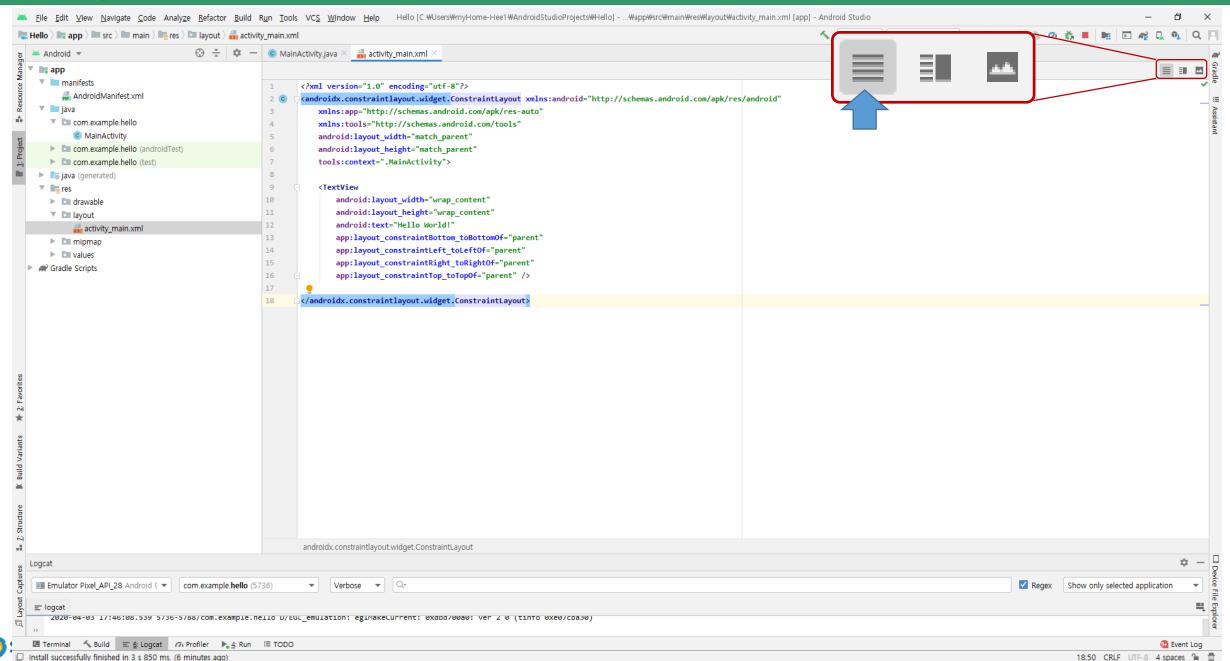


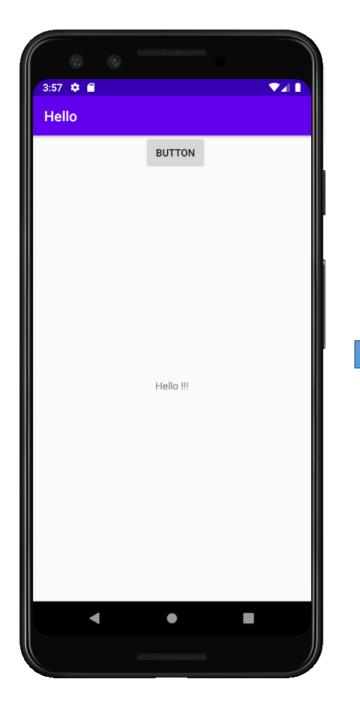














```
<TextView
   android:id="@+id/textView"
   android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
   app:layout constraintBottom toBottomOf="parent"
   app:layout constraintLeft toLeftOf="parent"
    app:layout constraintRight toRightOf="parent"
   app:layout constraintTop toBottomOf="@+id/testButton" />
<Button
   android:id="@+id/testButton"
   android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Button"
   app:layout constraintEnd toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```



■ 익명 클래스 사용

- ●클래스를 따로 선언하지 않고 내부(inner)클래스를 사용
- ●메서드의 인자에서 이름없는 익명클래스를 사용



```
public class MainActivity extends AppCompatActivity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```



```
public class MainActivity extends AppCompatActivity {
    Button testButton;

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

        testButton = findViewById(R.id.testButton);
    }
}
```



```
Button testButton;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    testButton = findViewById(R.id.)
                                    textView ( = 1000040)
                                                                                               int
                                   testButton ( = 1000046)
                                                                                               int
                                  f) gone ( = 1000070)
                                                                                               int
                                  f) invisible ( = 1000003)
                                                                                               int
                                  packed ( = 1000094)
                                                                                               int
                                  f parent ( = 1000000)
                                                                                               int
                                  f percent ( = 1000082)
                                                                                               int
                                 🍞 spread ( = 1000106)
                                                                                               int
                                 🚮 spread inside ( = 1000042)
                                                                                               int
                                 🧊 wrap ( = 1000051)
                                                                                               int
                                    class
                                                    owns instanceof Type 2 //Type \ even \ , pull
                                 Press Enter to insert, Tab to replace
```



```
Button testButton;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
   testButton = findViewById(R.id.testButton);
   testButton.set
            m setOnClickListener(OnClickListener 1)
                                                                               void
            m setAccessibilityDelegate(AccessibilityDelegate delegate)
                                                                               void
            m setAccessibilityHeading(boolean isHeading)
                                                                               void
            m setAccessibilityLiveRegion(int mode)
                                                                               void
            m setAccessibilityPaneTitle(CharSequence accessibilityPaneTi...
                                                                               void
            m setAccessibilityTraversalAfter(int afterId)
                                                                               void
            m setAccessibilityTraversalBefore(int beforeId)
                                                                               void
            m setActivated(boolean activated)
                                                                               void
            m setAllCaps(boolean allCaps)
                                                                               void
            m setAlpha(float alpha)
                                                                               void
            m setAnimation(Animation animation)
                                                                               void
            ____cotAnimationMatniv/Matniv matniv/
                                                                               waid
            Press Enter to insert, Tab to replace
```



```
public class MainActivity extends AppCompatActivity{
12
             Button testButton;
             @Override
13
14 of
             protected void onCreate(Bundle savedInstanceState) {
                 super.onCreate(savedInstanceState);
15
16
                 setContentView(R.layout.activity main);
                 testButton = findViewById(R.id.testButton);
17
                 testButton.setOnClickListener(new V);
18
                                                 View.OnClickListener{...} (android.view.View)
19
20
                                                 VerifyError java.lang
                                                 VirtualMachineError java.lang
21
                                                 👅 Void java.lang
                                                 View android.view
                                                   View.OnCreateContextMenuListener android.view.View
                                                 VelocityTracker android.view
                                                 VerifiedInputEvent android.view
                                                 VerifiedKeyEvent android.view
                                                 VerifiedMotionEvent android.view
                                                 VibrationAttributes android.os
                                                 VibrationEffoct android oc
                                                Press Enter to insert, Tab to replace Next Tip
```



```
Button testButton;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    testButton = findViewById(R.id.testButton);
}
```



```
Button testButton;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    testButton = findViewById(R.id.testButton);
    testButton.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
        }
    });
}
```



```
public class MainActivity extends AppCompatActivity {
   TextView textView;
   Button testButton;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        textView = findViewById(R.id.textView);
        testButton = findViewById(R.id.testButton);
        testButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
```



```
Toast.makeText(getApplicationContext(),"버튼 클릭", Toast.LENGTH_SHORT).show();
if(testButton.getText().equals("Button")) {
    testButton.setText("clicked");
    textView.setText("clicked");
}
else {
    testButton.setText("Button");
    textView.setText("Hello !!!");
}
```



MainActivity.java

```
public class MainActivity extends AppCompatActivity {
    TextView textView;
    Button testButton;
   @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        textView = findViewById(R.id.textView);
       testButton = findViewById(R.id.testButton);
       testButton.setOnClickListener(new View.OnClickListener() {
           @Override
            public void onClick(View v) {
                Toast.makeText(getApplicationContext(),"버튼 클릭", Toast.LENGTH_SHORT).show();
                if(testButton.getText().equals("Button")) {
                    testButton.setText("clicked");
                    textView.setText("clicked");
                else {
                    testButton.setText("Button");
                    textView.setText("Hello !!!");
        });
```



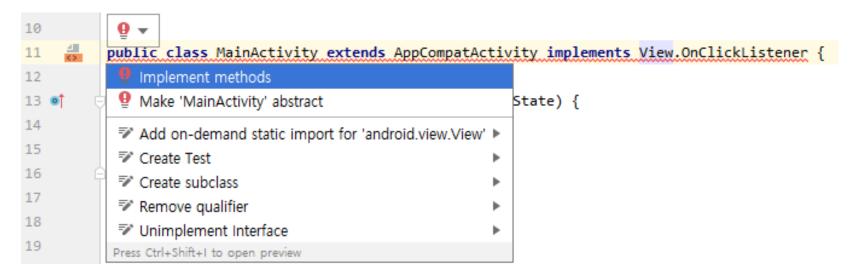
■ MainActivity에 이벤트 리스너 구현

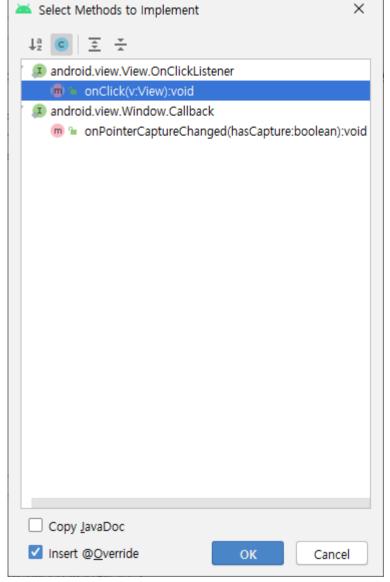
- MainActivity가 메인 클래스에 이벤트 리스너를 구현한다고 선언
- MainActivity가 이벤트 핸들러 객체가 됨



```
public class MainActivity extends AppCompatActivity implements View.OnClickListener{
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        Button testButton = (Button) findViewById(R.id.testButton);
       testButton.setOnClickListener(this);
   @Override
   public void onClick(View v) {
        switch(v.getId()){
           case R.id.testButton:
                Toast.makeText(getApplicationContext(),"버튼클릭", Toast.LENGTH_SHORT).show();
                break;
```









```
public class MainActivity extends AppCompatActivity implements View.OnClickListener {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    @Override
    public void onClick(View v) {
    }
}
```



```
public class MainActivity extends AppCompatActivity implements View.OnClickListener {
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
       Button testButton = (Button) findViewById(R.id.testButton);
       testButton.setOnClickListener(this);
   @Override
   public void onClick(View v) {
       switch(v.getId()){
           case R.id.testButton:
                Toast.makeText(getApplicationContext(),"버튼클릭", Toast.LENGTH_SHORT).show();
               break;
```



onClick 을 사용하여 함수 생성

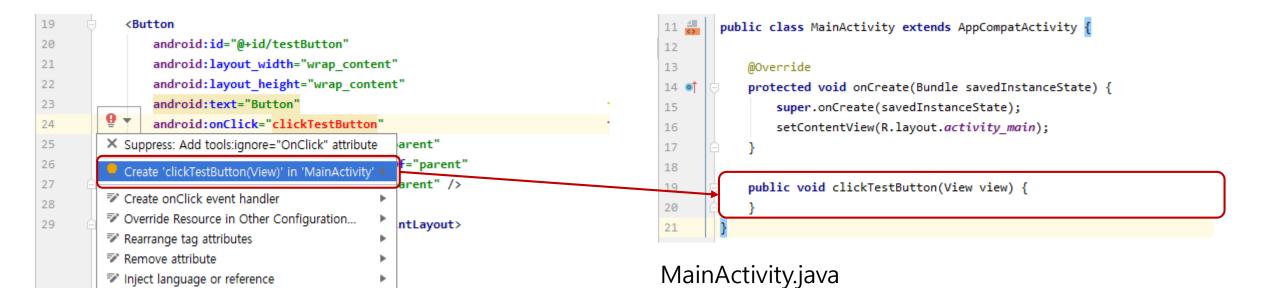
```
public class MainActivity extends AppCompatActivity {

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

    public void clickTestButton(View view) {
        Toast.makeText(getApplicationContext(),"버튼클릭", Toast.LENGTH_SHORT).show();
}
```

```
<Button
    android:id="@+id/testButton"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Button"
    android:onClick="clickTestButton" />
```





Press Ctrl+Shift+I to open preview



