

checkbox

Dhanya N.M.

```
2 <android.support.constraint.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res-auto"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context=".MainActivity">
```

```
9 <TextView
```

```
10     android:layout_width="wrap_content"
11     android:layout_height="wrap_content"
12     android:text="Hello World!"
13     app:layout_constraintBottom_toBottomOf="parent"
14     app:layout_constraintLeft_toLeftOf="parent"
15     app:layout_constraintRight_toRightOf="parent"
16     app:layout_constraintTop_toTopOf="parent" />
```

```
18 </android.support.constraint.ConstraintLayout>
```

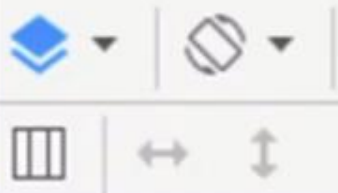
```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     android:orientation="vertical"
8     tools:context=".MainActivity">
9
10    <TextView
11        android:layout_width="wrap_content"
12        android:layout_height="wrap_content"
13        android:text="Hello World!"
14        app:layout_constraintBottom_toBottomOf="parent"
15        app:layout_constraintLeft_toLeftOf="parent"
16        app:layout_constraintRight_toRightOf="parent"
17        app:layout_constraintTop_toTopOf="parent" />
18
19 </LinearLayout>
```




```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     android:orientation="vertical"
8     android:padding="10dp"
9     tools:context=".MainActivity">
10
11     <TextView
12         android:layout_width="wrap_content"
13         android:layout_height="wrap_content"
14         android:text="Hello World!"
15         app:layout_constraintBottom_toBottomOf="parent"
16         app:layout_constraintLeft_toLeftOf="parent"
17         app:layout_constraintRight_toRightOf="parent"
18         app:layout_constraintTop_toTopOf="parent" />
19
20 </LinearLayout>
```



```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3     xmlns:app="http://schemas.android.com/apk/res-auto"
4     xmlns:tools="http://schemas.android.com/tools"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     android:orientation="vertical"
8     android:padding="10dp"
9     tools:context=".MainActivity">
10
11     <TextView
12         android:layout_width="wrap_content"
13         android:layout_height="wrap_content"
14         android:text="Select Programming Language :"
15         android:textSize="20sp"
16         android:textStyle="bold"/>
17
18 </LinearLayout>
```




```
6      android:layout_height="match_parent"
7      android:orientation="vertical"
8      android:padding="10dp"
9      tools:context=".MainActivity">
10
11      <TextView
12          android:layout_width="wrap_content"
13          android:layout_height="wrap_content"
14          android:text="Select Programming Language :"
15          android:textSize="20sp"
16          android:textStyle="bold"/>
17
18      <CheckBox
19          android:layout_width="match_parent"
20          android:layout_height="wrap_content"
21          android:id="@+id/cb_android"
22          android:text="Android"
23          android:textSize="20sp"
24          android:layout_marginTop="20dp"/>
25
26  </LinearLayout>
```



android:layout_width="match_parent"

andr

andr




andr

tool

<Tex

<Che

</Linear

	Cut	Ctrl+X
	Copy	Ctrl+C
	Copy as Plain Text	
	Copy Reference	Ctrl+Alt+Shift+C
	Paste	Ctrl+V
	Paste from History...	Ctrl+Shift+V
	Paste Simple	Ctrl+Alt+Shift+V
	Column Selection Mode	Alt+Shift+Insert
	Find Usages	Alt+F7
	Find Sample Code	Alt+F8
	Refactor	>
	Folding	>
	Analyze	>
	Search with Google	
	Go To	>
	Generate...	Alt+Insert



```
25  
26 <CheckBox  
27     android:layout_width="match_parent"  
28     android:layout_height="wrap_content"  
29     android:id="@+id/cb_java"  
30     android:text="Java"  
31     android:textSize="20sp"  
32     android:layout_marginTop="5dp"/>
```

```
33  
34 <CheckBox  
35     android:layout_width="match_parent"  
36     android:layout_height="wrap_content"  
37     android:id="@+id/cb_php"  
38     android:text="Php"  
39     android:textSize="20sp"  
40     android:layout_marginTop="5dp"/>
```

```
41  
42 </LinearLayout>
```




```
32     android:layout_marginTop="5dp"/>
```

```
33  
34 <CheckBox
```

```
35     android:layout_width="match_parent"
```

```
36     android:layout_height="wrap_content"
```

```
37     android:id="@+id/cb_php"
```

```
38     android:text="Php"
```

```
39     android:textSize="20sp"
```

```
40     android:layout_marginTop="5dp"/>
```

```
41  
42 <Button
```

```
43     android:layout_width="match_parent"
```

```
44     android:layout_height="wrap_content"
```

```
45     android:id="@+id/bt_submit"
```

```
46     android:text="submit"
```

```
47     android:layout_marginTop="10dp"/>
```

```
48  
49 |
```

```
50  
51 </LinearLayout>
```



```
38     android:text="Php"  
39     android:textSize="20sp"  
40     android:layout_marginTop="5dp"/>
```

```
41  
42 <Button  
43     android:layout_width="match_parent"  
44     android:layout_height="wrap_content"  
45     android:id="@+id/bt_submit"  
46     android:text="submit"  
47     android:layout_marginTop="10dp"/>
```

```
48  
49 <TextView  
50     android:layout_width="match_parent"  
51     android:layout_height="wrap_content"  
52     android:text="Selected Language :"  
53     android:textSize="20sp"  
54     android:textStyle="bold"/>
```

```
55  
56 </LinearLayout>
```



```
43     android:layout_width="match_parent"
44     android:layout_height="wrap_content"
45     android:id="@+id/bt_submit"
46     android:text="submit"
47     android:layout_marginTop="10dp"/>
```

```
48
49 <TextView
50     android:layout_width="match_parent"
51     android:layout_height="wrap_content"
52     android:text="Selected Language :"
53     android:textSize="20sp"
54     android:textStyle="bold"/>
```

```
55
56 <TextView
57     android:layout_width="match_parent"
58     android:layout_height="wrap_content"
59     android:id="@+id/output"
60     android:textSize="40sp"
61     android:textAlignment="center"
62     android:layout_marginTop="5dp"/>
```

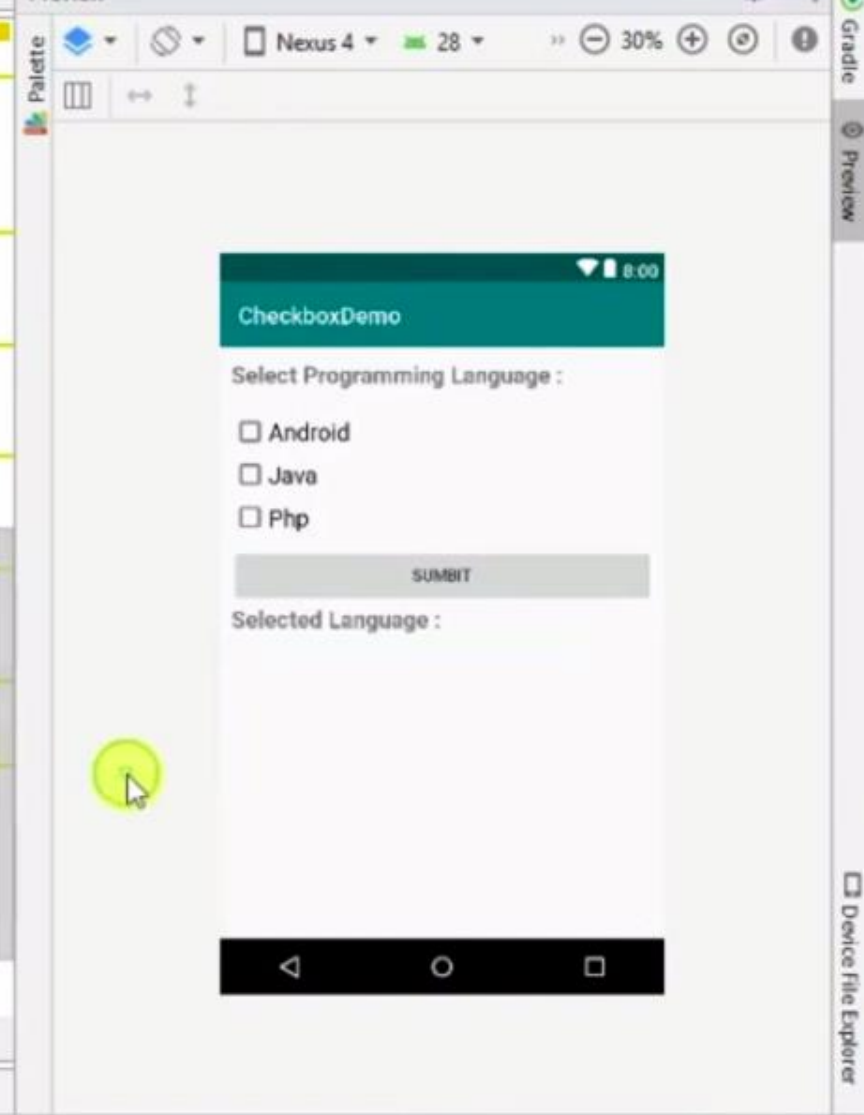
```
63
64 </LinearLayout>
```




```
35 android:layout_width="match_parent"
36 android:layout_height="wrap_content"
37 android:id="@+id/cb_php"
38 android:text="Php"
39 android:textSize="20sp"
40 android:layout_marginTop="5dp"/>
41
42 <Button
43     android:layout_width="match_parent"
44     android:layout_height="wrap_content"
45     android:id="@+id/bt_submit"
46     android:text="submit"
47     android:layout_marginTop="10dp"/>
48
49 <TextView
50     android:layout_width="match_parent"
51     android:layout_height="wrap_content"
52     android:text="Selected Language :"
53     android:textSize="20sp"
54     android:textStyle="bold"/>
55
56 <TextView
57     android:layout_width="match_parent"
58     android:layout_height="fill_parent"
59     android:id="@+id/output"
60     android:textSize="40sp"
61     android:textAlignment="center"
62     android:layout_marginTop="5dp"/>
63
64 </LinearLayout>
```

LinearLayout > TextView

Design Text



```
2
3 import ...
9
10 public class MainActivity extends AppCompatActivity {
11     CheckBox cbAndroid, cbJava, cbPhp;
12     Button btSubmit;
13     TextView tvOutput;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19     }
20 }
21
```



```
2
3 import ...
9
10 public class MainActivity extends AppCompatActivity {
11     CheckBox cbAndroid, cbJava, cbPhp;
12     Button btSubmit;
13     TextView tvOutput;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19
20         cbAndroid = findViewById(R.id.cb_android);
21         cbJava = findViewById(R.id.cb_java);
22         cbPhp = findViewById(R.id.cb_php);
23         btSubmit = findViewById(R.id.bt_submit);
24         tvOutput = findViewById(R.id.output);
25     }
26 }
27
```




```
2
3 import ...
9
10 public class MainActivity extends AppCompatActivity {
11     CheckBox cbAndroid, cbJava, cbPhp;
12     Button btSubmit;
13     TextView tvOutput;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19
20         cbAndroid = findViewById(R.id.cb_android);
21         cbJava = findViewById(R.id.cb_java);
22         cbPhp = findViewById(R.id.cb_php);
23         btSubmit = findViewById(R.id.bt_submit);
24         tvOutput = findViewById(R.id.tv_output);
25
26         cbAndroid.setOnClickListener(new View.OnClickListener() {
27             // ...
28         });
29     }
}
```

OnClickListener



checkbox cbAndroid, cbJava, cbPhp,

Button btSubmit;

TextView tvOutput;

@Override

protected void onCreate(Bundle savedInstanceState) {

 super.onCreate(savedInstanceState);

 setContentView(R.layout.activity_main);

 cbAndroid = findViewById(R.id.cb_android);

 cbJava = findViewById(R.id.cb_java);

 cbPhp = findViewById(R.id.cb_php);

 btSubmit = findViewById(R.id.bt_submit);

 tvOutput = findViewById(R.id.output);

 cbAndroid.setOnClickListener(new View.OnClickListener() {

 @Override

 public void onClick(View v) {

 if (cbAndroid.isChecked()) {

 cbAndroid.setTextColor(getResources().getColor(R.color.colorAccent));

 }

 }

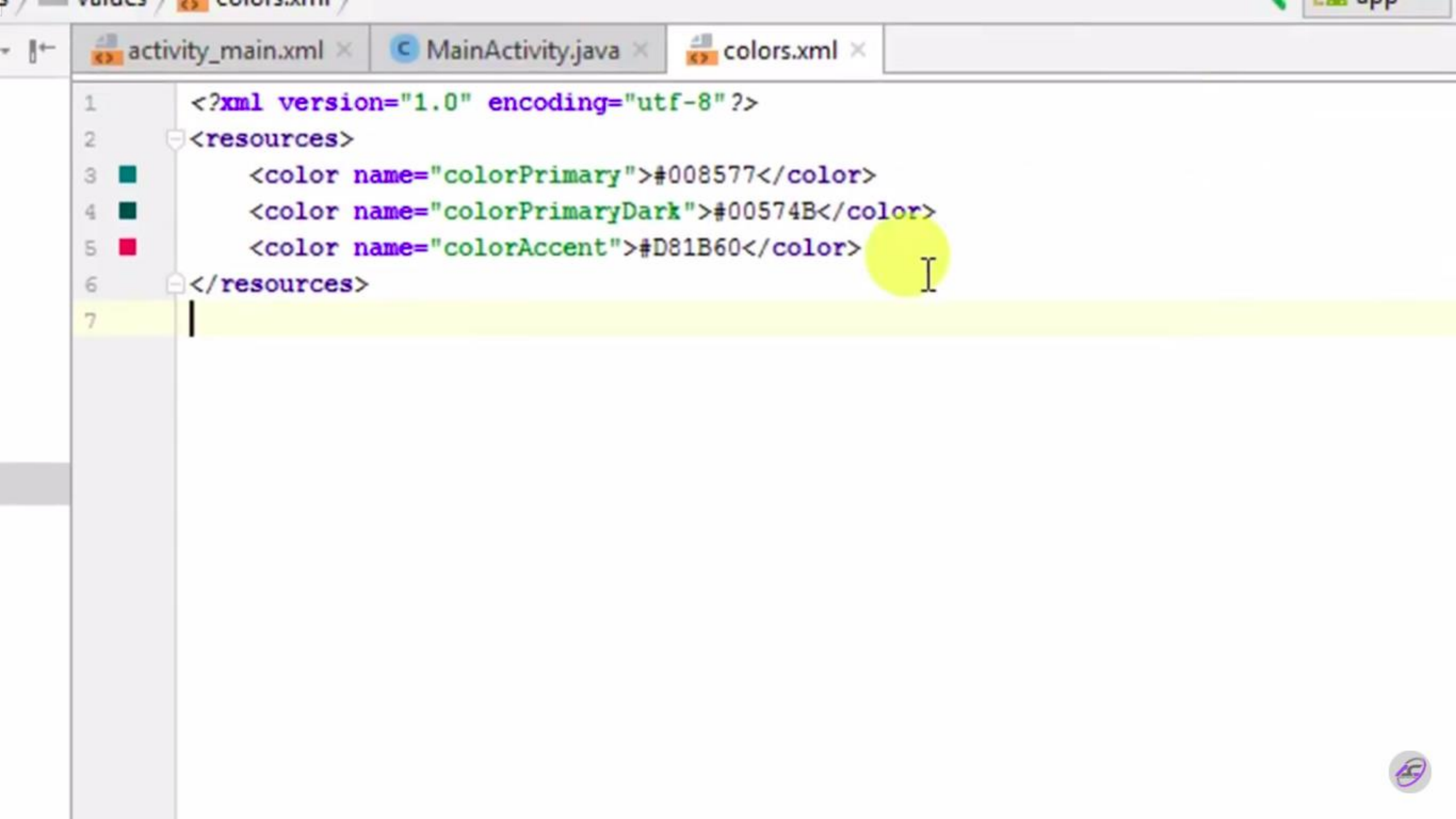
 });

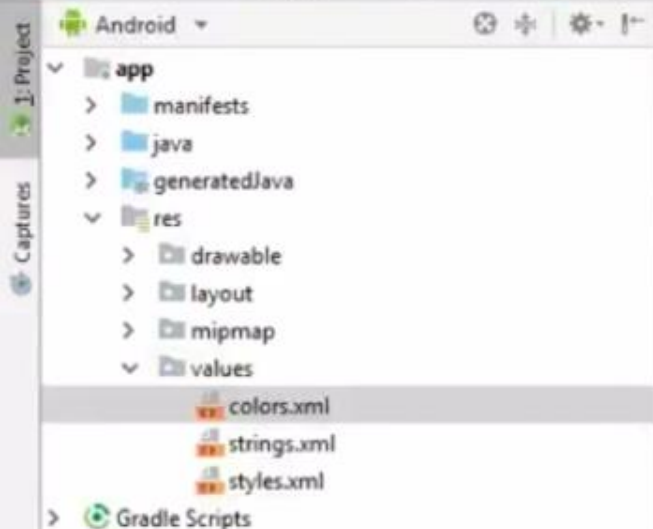
Android > 1: Project > app > manifests > java > generatedJava > res > Gradle Scripts > 2: Structure > Build Variants > 2: Favorites

```
1 package com.example.aopc.checkboxdemo;
2
3 import ...
4
5
6
7
8
9
10 public class MainActivity extends AppCompatActivity {
11     CheckBox cbAndroid, cbJava, cbPhp;
12     Button btSubmit;
13     TextView tvOutput;
14
15     @Override
16     protected void onCreate(Bundle savedInstanceState) {
17         super.onCreate(savedInstanceState);
18         setContentView(R.layout.activity_main);
19
20         cbAndroid = findViewById(R.id.cb_android);
21         cbJava = findViewById(R.id.cb_java);
22         cbPhp = findViewById(R.id.cb_php);
23         btSubmit = findViewById(R.id.bt_submit);
24         tvOutput = findViewById(R.id.output);
25
26         cbAndroid.setOnClickListener(new View.OnClickListener() {
27             @Override
28             public void onClick(View v) {
29                 if (cbAndroid.isChecked()) {
30                     cbAndroid.setTextColor(getResources().getColor(R.color.colorAccent));
31                 }
32             }
33         });
34     }
35 }
36
```

MainActivity > onCreate() > new OnClickListener > onClick()

Gradle > Device File Explorer





```
1 <?xml version="1.0" encoding="utf-8"?>
2 <resources>
3     <color name="colorPrimary">#008577</color>
4     <color name="colorPrimaryDark">#00574B</color>
5     <color name="colorAccent">#90EE90</color>
6     <color name="colorBalck">#000</color>
7 </resources>
8
```

resources > color

```
View tvOutput;
```

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

```
    cbAndroid = findViewById(R.id.cb_android);  
    cbJava = findViewById(R.id.cb_java);  
    cbPhp = findViewById(R.id.cb_php);  
    btSubmit = findViewById(R.id.bt_submit);  
    tvOutput = findViewById(R.id.output);
```

```
    cbAndroid.setOnClickListener(new View.OnClickListener() {  
        @Override  
        public void onClick(View v) {  
            if (cbAndroid.isChecked()) {  
                cbAndroid.setTextColor(getResources().getColor(R.color.colorAccent));  
            } else {  
                cbAndroid.setTextColor(getResources().getColor(R.color.colorBlack));  
            }  
        }  
    });
```




```
cbAndroid.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (cbAndroid.isChecked()) {
            cbAndroid.setTextColor(getResources().getColor(R.color.colorAccent));
        } else {
            cbAndroid.setTextColor(getResources().getColor(R.color.colorBlack));
        }
    }
});

cbAndroid.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (cbAndroid.isChecked()) {
            cbAndroid.setTextColor(getResources().getColor(R.color.colorAccent));
        } else {
            cbAndroid.setTextColor(getResources().getColor(R.color.colorBlack));
        }
    }
});
}
```

```
});
```

```
cbJava.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        if (cbJava.isChecked()) {  
            cbJava.setTextColor(getResources().getColor(R.color.colorAccent));  
        } else {  
            cbJava.setTextColor(getResources().getColor(R.color.colorBalck));  
        }  
    }  
});
```

```
cbAndroid.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        if (cbAndroid.isChecked()) {  
            cbAndroid.setTextColor(getResources().getColor(R.color.colorAccent));  
        } else {  
            cbAndroid.setTextColor(getResources().getColor(R.color.colorBalck));  
        }  
    }  
});
```



```
cbJava.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        if (cbJava.isChecked()) {  
            cbJava.setTextColor(getResources().getColor(R.color.colorAccent));  
        } else {  
            cbJava.setTextColor(getResources().getColor(R.color.colorBalck));  
        }  
    }  
});
```

```
cbPhp.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View v) {  
        if (cbPhp.isChecked()) {  
            cbPhp.setTextColor(getResources().getColor(R.color.colorAccent));  
        } else {  
            cbPhp.setTextColor(getResources().getColor(R.color.colorBalck));  
        }  
    }  
});
```




```
        cbJava.setTextColor(getResources().getColor(R.color.colorBalck));
    }
}

});

cbPhp.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        if (cbPhp.isChecked()) {
            cbPhp.setTextColor(getResources().getColor(R.color.colorAccent));
        } else {
            cbPhp.setTextColor(getResources().getColor(R.color.colorBalck));
        }
    }
});

btSumbit.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {

```



```
53         }else {
54             cbPhp.setTextColor(getResources().getColor(R.color.colorBlack));
55         }
56     }
57 });
58
59 btSubmit.setOnClickListener(new View.OnClickListener() {
60     @Override
61     public void onClick(View v) {
62         String s = "";
63         if (cbAndroid.isChecked()) {
64             s += "\n Android";
65         }
66     }
67 });
68 }
69 }
70
```



```
53         }else {
54             cbPhp.setTextColor(getResources().getColor(R.color.colorBalck));
55         }
56     }
57 });
58
59 btSubmit.setOnClickListener(new View.OnClickListener() {
60     @Override
61     public void onClick(View v) {
62         String s = "";
63         if (cbAndroid.isChecked()) {
64             s += "\n Android";
65         }
66         if (cbAndroid.isChecked()) {
67             s += "\n Android";
68         }
69         if (cbAndroid.isChecked()) {
70             s += "\n Android";
71         }
72     }
73 });
74 }
75 }
```

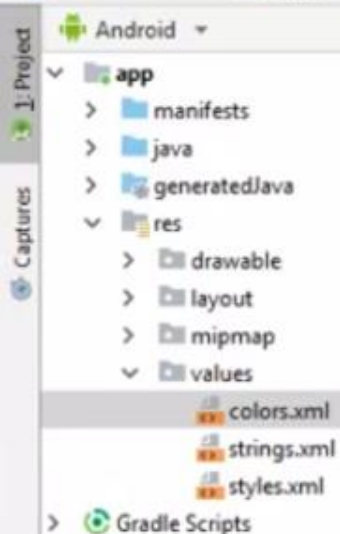


```
53         }else {
54             cbPhp.setTextColor(getResources().getColor(R.color.colorBlack));
55         }
56     }
57 });
58
59 btSubmit.setOnClickListener(new View.OnClickListener() {
60     @Override
61     public void onClick(View v) {
62         String s = "";
63         if (cbAndroid.isChecked()) {
64             s += "\n Android";
65         }
66         if (cbJava.isChecked()) {
67             s += "\n Android";
68         }
69         if (cbPhp.isChecked()) {
70             s += "\n Android";
71         }
72     }
73 });
74 }
75 }
```

```
53         }else {
54             cbPhp.setTextColor(getResources().getColor(R.color.colorBlack));
55         }
56     }
57 });
58
59 btSubmit.setOnClickListener(new View.OnClickListener() {
60     @Override
61     public void onClick(View v) {
62         String s = "";
63         if (cbAndroid.isChecked()) {
64             s += "\n Android";
65         }
66         if (cbJava.isChecked()) {
67             s += "\n Java";
68         }
69         if (cbPhp.isChecked()) {
70             s += "\n Php";
71         }
72     }
73 });
74 }
75 }
```



```
54     cbPhp.setTextColor(getResources().getColor(R.color.colorBlack));
55 }
56 }
57 ));
58
59 btSubmit.setOnClickListener(new View.OnClickListener() {
60     @Override
61     public void onClick(View v) {
62         String s = "";
63         if (cbAndroid.isChecked()) {
64             s += "\n Android";
65         }
66         if (cbJava.isChecked()) {
67             s += "\n Java";
68         }
69         if (cbPhp.isChecked()) {
70             s += "\n Php";
71         }
72         tvOutput.setText(s);
73     }
74 });
75 }
```

```
37 cbJava.setOnClickListener(new View.OnClickListener() {
38     @Override
39     public void onClick(View v) {
40         if (cbJava.isChecked()) {
41             cbJava.setTextColor(getResources().getColor(R.color.colorAccent));
42         } else {
43             cbJava.setTextColor(getResources().getColor(R.color.colorBlack));
44         }
45     }
46 });
47
48 cbPhp.setOnClickListener(new View.OnClickListener() {
49     @Override
50     public void onClick(View v) {
51         if (cbPhp.isChecked()) {
52             cbPhp.setTextColor(getResources().getColor(R.color.colorAccent));
53         } else {
54             cbPhp.setTextColor(getResources().getColor(R.color.colorBlack));
55         }
56     }
57 });
58
59 btSubmit.setOnClickListener(new View.OnClickListener() {
60     @Override
61     public void onClick(View v) {
62         String s = "";
63         if (cbAndroid.isChecked()) {
64             s += "\n Android";
65         }
66         if (cbJava.isChecked()) {
67             s += "\n Java";
68         }
69         if (cbPhp.isChecked()) {
```

MainActivity > onCreate() > new OnClickListener

CheckboxDemo

Select Programming Language :

☒ Android

☐ Java

☐ Php

SUMBIT

Selected Language :



CheckboxDemo

Select Programming Language :

☒ Android

☐ Java

☐ Php

SUMBIT

Selected Language :



CheckboxDemo

Select Programming Language :

☒ Android

☒ Java

☒ Php

SUMBIT

Selected Language :



Click the button and see....