

## Experiment No 11

1.

### AndroidManifest.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.exp11">
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.Exp11">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>
```

### activity\_main.xml:

```
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center"
    tools:context=".MainActivity">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/title"
        android:textColor="#f00"
        android:textSize="24sp"
        android:textStyle="bold"
    />
    <LinearLayout
        android:id="@+id/linearLayout"
        android:layout_width="fill_parent"
```

```
android:layout_height="wrap_content"
android:layout_marginTop="50dp"
android:orientation="vertical">
<CheckBox
android:id="@+id/c1"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:checked="false"
android:padding="20dp"
android:text="@string/c"
android:textColor="@color/purple_700"
android:textSize="20sp" />
<CheckBox
android:id="@+id/c2"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:checked="false"
android:padding="20dp"
android:text="@string/c_plus"
android:textColor="@color/purple_700"
android:textSize="20sp"/>
<CheckBox
android:id="@+id/c3"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:checked="false"
android:padding="20dp"
android:text="@string/java"
android:textColor="@color/purple_700"
android:textSize="20sp"/>
<CheckBox
android:id="@+id/c4"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:checked="false"
android:padding="20dp"
android:text="@string/python"
android:textColor="@color/purple_700"
android:textSize="20sp" />
<CheckBox
```

```

android:id="@+id/c5"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_centerHorizontal="true"
android:checked="false"
android:padding="20dp"
android:text="@string/kotlin"
android:textColor="@color/purple_700"
android:textSize="20sp" />
</LinearLayout>
</RelativeLayout>

```

#### **strings.xml:**

```

<resources>
<string name="app_name">Exp11</string>
<string name="c">C</string>
<string name="c_plus">C++</string>
<string name="java">JAVA</string>
<string name="python">PYTHON</string>
<string name="kotlin">KOTLIN</string>
<string name="title">Select Your Programming language:</string>
</resources>

```

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

```

package com.example.exp11;
import android.os.Bundle;
import android.view.View;
import android.widget.CheckBox;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity implements
View.OnClickListener {
    CheckBox c,c_plus,java,python,kotlin;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        c = (CheckBox) findViewById(R.id.c1);
        c.setOnClickListener(this);
        c_plus = (CheckBox) findViewById(R.id.c2);
        c_plus.setOnClickListener(this);
        java = (CheckBox) findViewById(R.id.c3);
    }
}

```

```
java.setOnClickListener(this);
python = (CheckBox) findViewById(R.id.c4);
python.setOnClickListener(this);
kotlin = (CheckBox) findViewById(R.id.c5);
kotlin.setOnClickListener(this);
}
@Override
public void onClick(View view) {
    switch (view.getId()) {
        case R.id.c1:
            if (c.isChecked())
                Toast.makeText(getApplicationContext(), "C is Selected",
                    Toast.LENGTH_LONG).show();
            break;
        case R.id.c2:
            if (c_plus.isChecked())
                Toast.makeText(getApplicationContext(), "C++ is Selected",
                    Toast.LENGTH_LONG).show();
            break;
        case R.id.c3:
            if (java.isChecked())
                Toast.makeText(getApplicationContext(), "JAVA is Selected",
                    Toast.LENGTH_LONG).show();
            break;
        case R.id.c4:
            if (python.isChecked())
                Toast.makeText(getApplicationContext(), "PYTHON is Selected",
                    Toast.LENGTH_LONG).show();
            break;
        case R.id.c5:
            if (kotlin.isChecked())
                Toast.makeText(getApplicationContext(), "KOTLIN is Selected",
                    Toast.LENGTH_LONG).show();
            break;
    }
}
```

Output:



The screenshot shows a mobile application interface with a purple header bar. The header bar contains the time "7:05" on the left and network status icons (signal strength, speed "0.35 KB/S", "Vo LTE", "5G", and battery "72") on the right. The main content area has a light pink background. It features a red heading "Select Your Programming language:". Below this heading is a list of programming languages, each with a checkbox and the language name in purple: "C" (checked), "C++" (unchecked), "JAVA" (unchecked), "PYTHON" (checked), and "KOTLIN" (unchecked). At the bottom of the screen, there is a white toast notification box with a green checkmark icon and the text "C is Selected".

7:05 0.35 KB/S Vo LTE 5G 72

### Select Your Programming language:

- ☒ C
- ☐ C++
- ☐ JAVA
- ☒ PYTHON
- ☐ KOTLIN

 C is Selected