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<?xml version="1.0" encoding="utf-8" ?>
<LinearLayout 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="wrap_content"
    android:orientation="vertical"
    tools:context=".MainActivity" >

    <Button
        android:id="@+id/button1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="전화걸기" />

    <Button
        android:id="@+id/button2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="네이버 페이지" />

    <Button
        android:id="@+id/button3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="구글맵" />

    <Button
        android:id="@+id/button4"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="검색" />

    <Button
        android:id="@+id/button5"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="문자" />

    <Button
        android:id="@+id/button6"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="갤러리" />

    <Button
        android:id="@+id/button7"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="카메라" />

    <Button
        android:id="@+id/button8"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="주소록" />

    <Button
        android:id="@+id/button9"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="통화목록" />
</LinearLayout>
```



```
// 암시적(묵시적)Intent는 약속된 액션을 지정하여 안드로이드에서 제공하는
// 기존 응용 프로그램을 실행
// 앱 사용 허가 받아야 됨

public class MainActivity extends AppCompatActivity {
    Button button1, button2, button3, button4, button5, button6, button7, button8, button9;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        button1 = findViewById(R.id.button1);
        button2 = findViewById(R.id.button2);
        button3 = findViewById(R.id.button3);
        button4 = findViewById(R.id.button4);
        button5 = findViewById(R.id.button5);
        button6 = findViewById(R.id.button6);
        button7 = findViewById(R.id.button7);
        button8 = findViewById(R.id.button8);
        button9 = findViewById(R.id.button9);

        // 전화걸기
        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                /*
                Intent intent = new Intent(Intent.ACTION_DIAL);
                intent.setData(Uri.parse("tel:01097329110"));
                if (intent.resolveActivity(getPackageManager()) != null) {
                    startActivity(intent);
                }
                */
                // 앱 정보에서 강제로 권한을 줘야 됨
                Intent intent = new Intent(Intent.ACTION_CALL);
                intent.setData(Uri.parse("tel:01097329110"));
                if (intent.resolveActivity(getPackageManager()) != null) {
                    if (checkSelfPermission(Manifest.permission.CALL_PHONE) !=
                        PackageManager.PERMISSION_GRANTED) {
                        return;
                    }
                    startActivity(intent);
                }
            }
        });

        // 웹 사이트
        button2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Uri webpage = Uri.parse("https://m.naver.com");
                Intent intent = new Intent(Intent.ACTION_VIEW, webpage);
                if (intent.resolveActivity(getPackageManager()) != null) {
                    startActivity(intent);
                }
            }
        });

        // 구글 맵 호출
        button3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(Intent.ACTION_VIEW);
                /*intent.setData(Uri.parse("geo:37.5022,127.0245?z=19"));*/
                // 마커표시
                intent.setData(Uri.parse("geo:0,0?q=37.5022,127.0245&z=19"));
                if (intent.resolveActivity(getPackageManager()) != null) {
                    startActivity(intent);
                }
            }
        });

        // 웹 검색
        button4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(Intent.ACTION_WEB_SEARCH);
                intent.putExtra(SearchManager.QUERY, "강남역 맛집");
                if (intent.resolveActivity(getPackageManager()) != null) {
                    startActivity(intent);
                }
            }
        });

        // 문자 보내기
        button5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(Intent.ACTION_SENDTO, Uri.parse("smsto:01097329110"));
                intent.putExtra("sms_body", "잠시 후 다시 전화 주세요 ");
                /*if (intent.resolveActivity(getPackageManager()) != null) {
                    startActivity(intent);
                }
                */
            }
        });

        // 갤러리
        button6.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                // 갤러리 열기
                Intent intent = new Intent(Intent.ACTION_GET_CONTENT);
                intent.setType("image/*");
                if (intent.resolveActivity(getPackageManager()) != null) {
                    startActivity(intent);
                }
            }
        });
    }
}
```

```
// 카메라
button7.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(MediaStore.ACTION_IMAGE_CAPTURE);
        if (intent.resolveActivity(getPackageManager()) != null) {
            startActivity(intent);
        }
    }
});

// 주소록
button8.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent(Intent.ACTION_PICK);
        intent.setData(ContactsContract.Contacts.CONTENT_URI);
        startActivity(intent);
    }
});

// 통화 목록
button9.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent intent = new Intent();
        intent.setAction(Intent.ACTION_VIEW);
        intent.setType(CallLog.Calls.CONTENT_TYPE);
        if (intent.resolveActivity(getPackageManager()) != null) {
            startActivity(intent);
        }
    }
});
}
```

