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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="대화상자1" />

    <Button
        android:id="@+id/button2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="대화상자2" />

    <Button
        android:id="@+id/button3"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="대화상자3" />

    <Button
        android:id="@+id/button4"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="대화상자4" />

    <Button
        android:id="@+id/button5"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="대화상자5" />

    <Button
        android:id="@+id/button6"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="대화상자6" />

</LinearLayout>
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public class MainActivity extends AppCompatActivity {
    Button button1, button2, button3, button4, button5, button6;
    // button3에 사용할 메뉴 목록을 배열만든다.
    String[] foods = {"치킨", "삼겹살", "곱창", "파전"};
    boolean[] isFoods = {false, false, false, false};
    ArrayList<String> k_foods = null;
    @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);

        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                new AlertDialog.Builder(MainActivity.this)
                    .setTitle("대화상자1")
                    .setMessage("대화상자내용")
                    .setIcon(R.mipmap.ic_launcher)
                    .show();
            }
        });
        button2.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                new AlertDialog.Builder(MainActivity.this)
                    .setTitle("프로그램종료")
                    .setMessage("정말종료할까요?")
                    .setIcon(R.mipmap.ic_launcher)
                    .setPositiveButton("확인", new DialogInterface.OnClickListener() {
                        @Override
                        public void onClick(DialogInterface dialogInterface, int i) {
                            finish();
                        }
                    })
                    .setNegativeButton("취소", new DialogInterface.OnClickListener() {
                        @Override
                        public void onClick(DialogInterface dialogInterface, int i) {
                            return;
                        }
                    })
                    .show();
            }
        });
        button3.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                new AlertDialog.Builder(MainActivity.this)
                    .setTitle("메뉴선택하세요")
                    .setIcon(R.mipmap.ic_launcher)
                    .setItems(foods, new DialogInterface.OnClickListener() {
                        @Override
                        public void onClick(DialogInterface dialogInterface, int i) {
                            // int i => 선택된 목록의 위치값(index)
                            String msg = foods[i];
                            Toast.makeText(MainActivity.this, msg+" 선택",
                                Toast.LENGTH_SHORT).show();
                        }
                    })
                    .show();
            }
        });
        button4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                new AlertDialog.Builder(MainActivity.this)
                    .setTitle("메뉴선택하세요")
                    .setIcon(R.mipmap.ic_launcher)
                    .setSingleChoiceItems(foods, 3, new DialogInterface.OnClickListener() {
                        @Override
                        public void onClick(DialogInterface dialogInterface, int i) {
                            // int i => 선택된 목록의 위치값(index)
                            String msg = foods[i];
                            Toast.makeText(MainActivity.this, msg+" 선택",
                                Toast.LENGTH_SHORT).show();
                        }
                    })
                    .show();
            }
        });

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        button5.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                new AlertDialog.Builder(MainActivity.this)
                    .setTitle("메뉴선택하세요")
                    .setIcon(R.mipmap.ic_launcher)
                    .setMultiChoiceItems(foods, isFoods, new
                        DialogInterface.OnMultiChoiceClickListener() {
                            @Override
                            public void onClick(DialogInterface dialogInterface, int i,
                                boolean b) {
                                    // int i(위치), boolean b(선택/해제)
                                    if(b){
                                        Toast.makeText(MainActivity.this, foods[i]+"선택",
                                            Toast.LENGTH_SHORT).show();
                                    }else{
                                        Toast.makeText(MainActivity.this, foods[i]+"해제",
                                            Toast.LENGTH_SHORT).show();
                                    }
                                }
                            })
                    .show();
            }
        });
        button6.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                // 다이얼로그 생성 메소드
                showDialog();
            }
        });
        private void showDialog(){
            // 출력하는 배열 초기화
            k_foods = new ArrayList<>();
            AlertDialog.Builder builder = new AlertDialog.Builder(this);
            builder.setTitle("대화상자6");
            builder.setIcon(R.mipmap.ic_launcher);
            builder.setMultiChoiceItems(foods, isFoods, new
                DialogInterface.OnMultiChoiceClickListener() {
                    @Override
                    public void onClick(DialogInterface dialogInterface, int i,
                        boolean b) {
                            if(b){
                                k_foods.add(foods[i]);
                            }else{
                                k_foods.remove(foods[i]);
                            }
                        }
                    // 체크박스 초기화
                    isFoods[i] = false;
                })
            );
            builder.setPositiveButton("예", new
                DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialogInterface, int i) {
                        // Toast.makeText(MainActivity.this, "예 버튼클릭",
                        // Toast.LENGTH_SHORT).show();
                        String msg = "";
                        for (String k : k_foods){
                            msg += k+" ";
                        }
                        Toast.makeText(MainActivity.this, msg,
                            Toast.LENGTH_SHORT).show();
                    }
                });
            builder.setNegativeButton("아니요", new
                DialogInterface.OnClickListener() {
                    @Override
                    public void onClick(DialogInterface dialogInterface, int i) {
                        Toast.makeText(MainActivity.this, "아니요 버튼 클릭",
                            Toast.LENGTH_SHORT).show();
                        return ;
                    }
                });
            builder.show();
        }
    }

```

