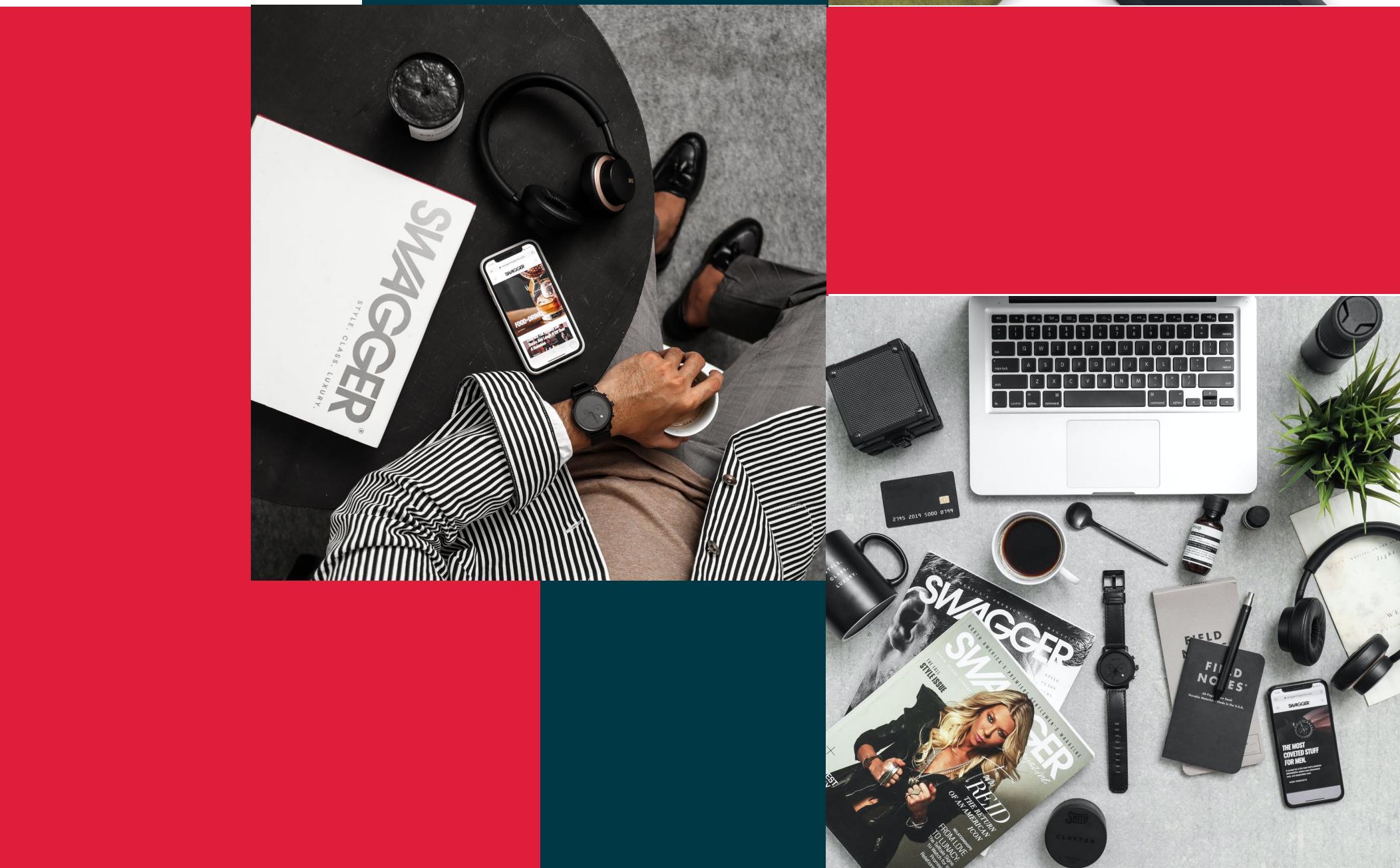


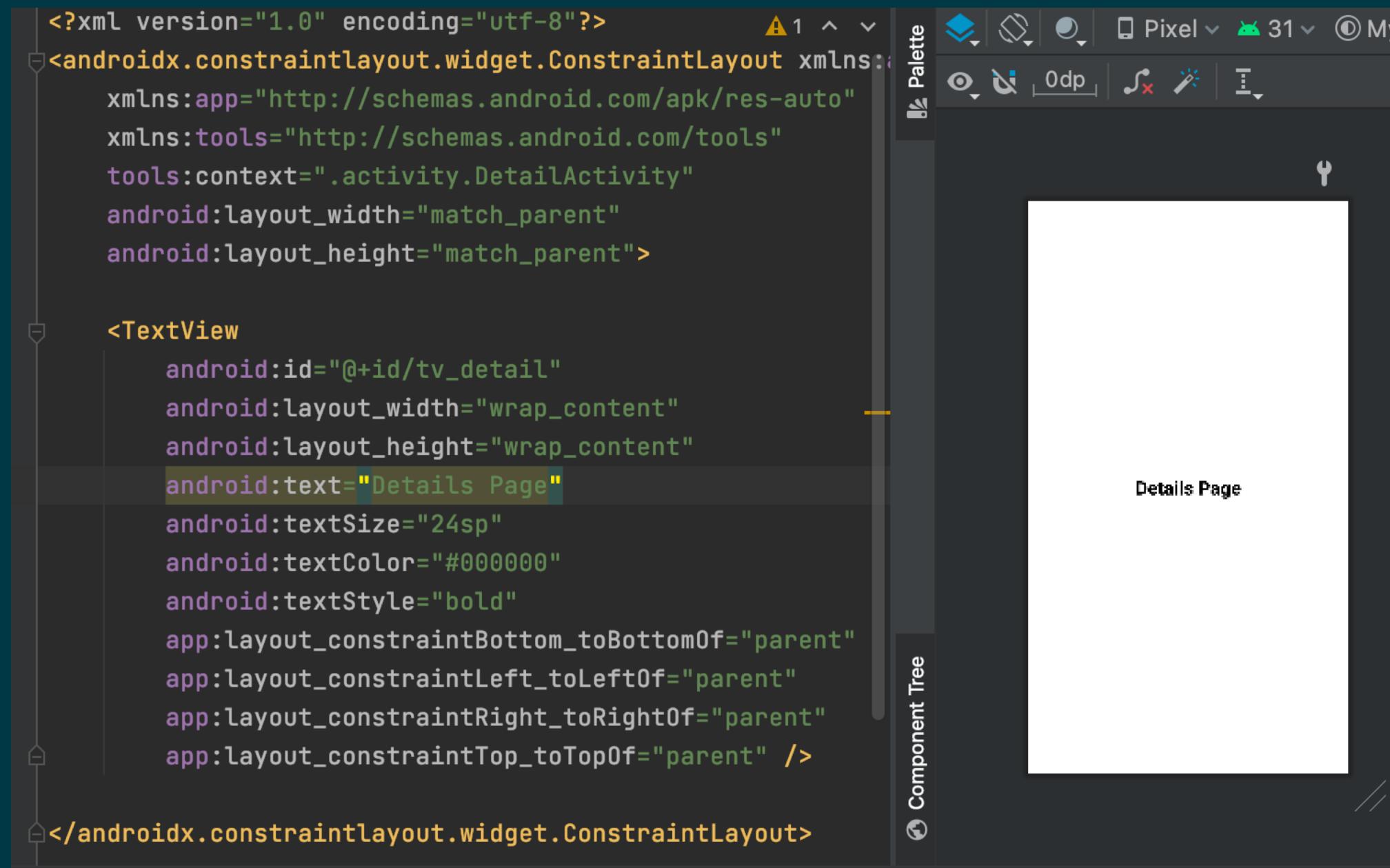


# Android – Android Beginner

## Intent



## TextView Style (Java, Kotlin)



The screenshot shows the Android Studio interface with the XML layout editor open. The XML code defines a ConstraintLayout containing a single TextView. The TextView has an id of @+id/tv\_detail, a width and height of wrap\_content, and a bold font style. Its text content is set to "Details Page". The preview window on the right shows a white rectangular area labeled "Details Page".

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout 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"
    tools:context=".activity.DetailActivity"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/tv_detail"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Details Page"
        android:textSize="24sp"
        android:textColor="#000000"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

# Pass String between Activities (Java)

```
public class MainActivity extends AppCompatActivity {

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

    void initViews(){
        Button b_open_detail = (Button) findViewById(R.id.b_open_detail);
        b_open_detail.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) { openDetailActivity(); }
        });
    }

    void openDetailActivity(){
        Intent intent = new Intent( packageContext: this, DetailActivity.class);
        intent.putExtra( name: "name", value: "PDP Academy");
        startActivity(intent);
    }
}
```

```
public class DetailActivity extends AppCompatActivity {
    static final String TAG = DetailActivity.class.toString();

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

    void initViews(){
        TextView tv_detail = findViewById(R.id.tv_detail);

        String name = getIntent().getStringExtra( name: "name");
        Log.d(TAG, name);

        tv_detail.setText(name);
    }
}
```

# Pass String between Activities (Kotlin)

```
class MainActivity : AppCompatActivity() {  
  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_main)  
        initViews()  
    }  
  
    fun initViews() {  
        var b_open_detail = findViewById<Button>(R.id.b_open_detail)  
        b_open_detail.setOnClickListener{ it: View!  
            openDetailActivity()  
        }  
    }  
  
    fun openDetailActivity() {  
        var intent = Intent( packageContext: this, DetailActivity::class.java)  
        intent.putExtra( name: "name", value: "PDP Academy")  
        startActivity(intent)  
    }  
}
```

```
class DetailActivity : AppCompatActivity() {  
    val TAG = DetailActivity::class.java.toString()  
  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_detail)  
        initViews();  
    }  
  
    fun initViews() {  
        var tv_detail = findViewById<TextView>(R.id.tv_detail)  
  
        var name = intent.getStringExtra( name: "name")  
        Log.d(TAG, name!!)  
  
        tv_detail.text = name  
    }  
}
```

# Java Serializable

```
import java.io.Serializable;

public class User implements Serializable {

    private int id;
    private String name;

    public User(int id, String name){
        this.id = id;
        this.name = name;
    }

    public String toString(){
        return id+" : "+name;
    }
}
```

# Pass Object between Activities (Java)

```
public class MainActivity extends AppCompatActivity {

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

    void initViews(){
        Button b_open_detail = findViewById(R.id.b_open_detail);
        b_open_detail.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                User user = new User(id: 11, name: "PDP");
                openDetailActivity(user);
            }
        });
    }

    void openDetailActivity(User user){
        Intent intent = new Intent(packageContext: this, DetailActivity.class);
        intent.putExtra(name: "user", user);
        startActivity(intent);
    }
}
```

```
public class DetailActivity extends AppCompatActivity {
    static final String TAG = DetailActivity.class.toString();

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

    void initViews(){
        TextView tv_detail = findViewById(R.id.tv_detail);

        User user = (User) getIntent().getSerializableExtra(name: "user");
        Log.d(TAG, user.toString());

        tv_detail.setText(user.toString());
    }
}
```

# Kotlin Serializable

```
import java.io.Serializable;

public class User implements Serializable {

    private int id;
    private String name;

    public User(int id, String name){
        this.id = id;
        this.name = name;
    }

    public String toString(){
        return id+" : "+name;
    }
}
```

# Pass Object between Activities (Kotlin)

```
class MainActivity : AppCompatActivity() {  
  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_main)  
        initViews()  
    }  
  
    fun initViews(){  
        var b_open_detail = findViewById<Button>(R.id.b_open_detail)  
        b_open_detail.setOnClickListener{ it: View!  
            var user = User(id = 11, name = "PDP")  
            openDetailActivity(user)  
        }  
    }  
  
    fun openDetailActivity(user: User) {  
        val intent = Intent(packageContext: this, DetailActivity::class.java)  
        intent.putExtra(name: "user", user)  
        startActivity(intent)  
    }  
}
```

```
class DetailActivity : AppCompatActivity() {  
  
    val TAG = DetailActivity::class.java.toString()  
  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_detail)  
        initViews()  
    }  
  
    fun initViews(){  
        var tv_detail = findViewById<TextView>(R.id.tv_detail)  
  
        var user = intent.getSerializableExtra(name: "user")  
        Log.d(TAG, user.toString())  
  
        tv_detail.text = user.toString()  
    }  
}
```

# ActivityForResult (Java Old)

```
public class MainActivity extends AppCompatActivity {
    static final String TAG = MainActivity.class.toString();
    int LAUNCH_DETAIL = 1001;
    TextView tv_home;

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

    @Override
    protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
        super.onActivityResult(requestCode, resultCode, data);
        if (requestCode == LAUNCH_DETAIL) {
            if(resultCode == Activity.RESULT_OK){
                String result=data.getStringExtra( name: "result");
                Log.d(TAG,result);
                tv_home.setText(result);
            }
        }
    }

    void openDetailActivity(User user){
        Intent intent = new Intent( packageContext: this, DetailActivity.class);
        intent.putExtra( name: "user",user);
        startActivityForResult(intent, LAUNCH_DETAIL);
    }
}
```

```
<androidx.constraintlayout.widget.ConstraintLayout xmlns:and
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".activity.MainActivity">

    <LinearLayout
        android:orientation="vertical"
        android:gravity="center_horizontal|center_vertical"
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <TextView
            android:id="@+id/tv_home"
            android:textSize="22sp"
            android:textStyle="bold"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content" />

        <Button
            android:id="@+id/b_open_detail"
            android:layout_marginTop="10dp"
            android:text="Open Detail"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"/>

    </LinearLayout>

```

```
public class DetailActivity extends AppCompatActivity {
    static final String TAG = DetailActivity.class.toString();

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

    void backToFinish(){
        Intent returnIntent = new Intent();
        returnIntent.putExtra( name: "result", value: "PDP Academy");
        setResult(Activity.RESULT_OK,returnIntent);
        finish();
    }
}
```

## ActivityForResult (Java New)

```
public class MainActivity extends AppCompatActivity {
    static final String TAG = MainActivity.class.toString();
    TextView tv_home;

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

    ActivityResultLauncher<Intent> detailLauncher = registerForActivityResult(
        new ActivityResultContracts.StartActivityForResult(),
        new ActivityResultCallback<ActivityResult>() {
            @Override
            public void onActivityResult(ActivityResult result) {
                if (result.getResultCode() == Activity.RESULT_OK) {
                    Intent data = result.getData();
                    String text = data.getStringExtra(name: "result");
                    Log.d(TAG, text);
                    tv_home.setText(text);
                }
            }
        });
}

void openDetailActivity(User user){
    Intent intent = new Intent(packageContext: this, DetailActivity.class);
    intent.putExtra(name: "user", user);
    detailLauncher.launch(intent);
}
```

## ActivityForResult (Kotlin New)

```
class MainActivity : AppCompatActivity() {  
  
    lateinit var tv_home: TextView  
  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_main)  
        initViews()  
    }  
  
    var detailLauncher = registerForActivityResult(  
        ActivityResultContracts.StartActivityForResult()) { result ->  
        if (result.resultCode == Activity.RESULT_OK) {  
            val data: Intent? = result.data  
            var text = data!!.getStringExtra("result")  
            tv_home.text = text  
        }  
    }  
  
    fun openDetailActivity(user: User) {  
        val intent = Intent(packageContext: this, DetailActivity::class.java)  
        intent.putExtra(name: "user", user)  
        detailLauncher.launch(intent)  
    }  
}
```

```
class DetailActivity : AppCompatActivity() {  
    val TAG = DetailActivity::class.java.toString()  
  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_detail)  
        initViews()  
    }  
  
    fun backToFinish() {  
        val returnIntent = Intent()  
        returnIntent.putExtra(name: "result", value: "PDP Academy")  
        setResult(RESULT_OK, returnIntent)  
        finish()  
    }  
  
    fun initViews(){  
        var tv_detail = findViewById<TextView>(R.id.tv_detail)  
        val b_go_back = findViewById<Button>(R.id.b_go_back)  
        b_go_back.setOnClickListener { it: View! ->  
            backToFinish()  
        }  
        var user = intent.getSerializableExtra(name: "user")  
        Log.d(TAG, user.toString())  
  
        tv_detail.text = user.toString()  
    }  
}
```

**Task 1:**

Yoshingizni va Ismingizni birinchi Activity dan ikkinchi Activity ga olib o`ting.

[Java](#), [Kotlin](#)

**Task 2:**

Yoshingizni va Ismingizni Object holatida birinchi Activity dan ikkinchi Activity ga olib o`ting. Va bunda [Serializable](#) dan foydalaning.

[Java](#), [Kotlin](#)

**Task 3:**

Yoshingizni va Ismingizni Object holatida birinchi Activity dan ikkinchi Activity ga olib o`ting. Va bunda [Parcelable](#) dan foydalaning.

[Java](#), [Kotlin](#)

**Task 4:**

Birinchi Activity dan ikkinchi Activity ga User degan objectni olib o`ting va ikkinchidan birinchiga Member degan object ni qaytaring. Va bunda [Serializable](#) dan foydalaning.

[Java](#), [Kotlin](#)

**Task 5:**

Birinchi Activity dan ikkinchi Activity ga User degan objectni olib o`ting va ikkinchidan birinchiga Member degan object ni qaytaring. Va bunda [Parcelable](#) dan foydalaning.

[Java](#), [Kotlin](#)

**Task 6:**

Java va Kotlin da yaratgan Project larni Github ga chiqaring.

[Java](#), [Kotlin](#)