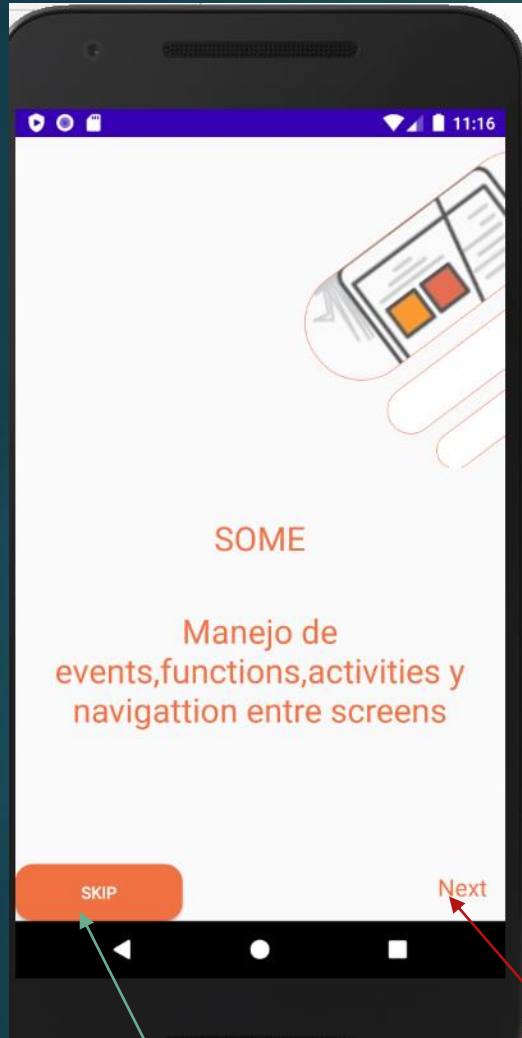


Defensa Hito 3

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Crear una APP Android de nombre (DefensaHito3), generar las primeras ACTIVITIES(Pantalla 1 y 2) de la aplicación. Debe estar presente diseño y funcionalidad.



Manda a la pantalla 3

Pasa a la pantalla 2

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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"
    tools:context=".Onboarding.n1"
    android:orientation="vertical">
    <ImageView
        android:id="@+id/ima"
        android:layout_width="wrap_content"
        android:layout_height="277dp"
        android:layout_gravity="center"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="1dp"
        android:scaleType="centerCrop"
        android:src="@drawable/img1" />
    <TextView
        android:id="@+id/textTitle1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:fontFamily="sans-serif"
        android:gravity="center"
        android:text="@string/titulo"
        android:textColor="@color/colorPrimary"
        android:textSize="28sp" />
```

```
<TextView
    android:id="@+id/textlar"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:fontFamily="sans-serif"
    android:gravity="center"
    android:text="@string/manejo"
    android:textColor="@color/colorPrimary"
    android:textSize="28sp" />
<LinearLayout
    android:id="@+id/layoutNext"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal">
    <Button
        android:id="@+id/skip1"
        android:layout_width="141dp"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|start"
        android:background="@drawable/stylesnt"
        android:text="@string/skip"
        android:textColor="@color/colorWhite">
    </Button>
    <TextView
        android:id="@+id/textInc"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|start"
        android:layout_marginRight="15dp"
        android:layout_marginBottom="2dp"
        android:layout_weight="1"
        android:clickable="true"
        android:focusable="true"
        android:fontFamily="sans-serif"
        android:gravity="bottom|end"
        android:text="@string/done"
        android:textColor="@color/colorPrimary"
        android:textSize="20sp"/>
    </LinearLayout>
</LinearLayout>
```

Código Java pantalla 1

```
package com.example.examenhito3.Onboarding;

public class n1 extends Fragment {
    private ViewPager viewPager;
    private View view;
    TextView textNextFace;
    Button Next;
    public n1() {
        // Required empty public constructor
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        //initialize viewPager from main activity
        initializeInflater(inflater, container);

        //initialize components
        initializeComponents();

        //add click event to text Next and prev text
        addClickNextAndPrev();

        //return
        return view;
    }
}
```

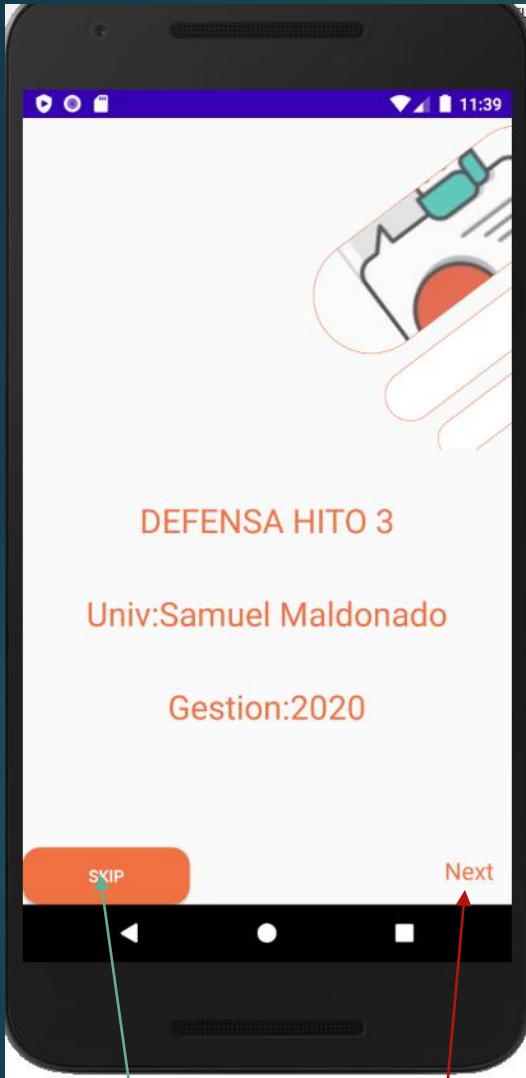
```
public void initializeInflater(LayoutInflater inflater, ViewGroup container) {
    view = inflater.inflate(R.layout.fragment_n1, container, false);
}

public void initializeComponents() {
    viewPager = getActivity().findViewById(R.id.viewPagerContainer);

    textNextFace = view.findViewById(R.id.textInc);
    Next=view.findViewById(R.id.skip1);
}

public void addClickNextAndPrev() {

    textNextFace.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            viewPager.setCurrentItem(1);
        }
    });
    Next.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            viewPager.setCurrentItem(2);
        }
    });
}
}
```



Manda a la
pantalla 3

Pasa a la
pantalla 2

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/r
es/android"

    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".Onboarding.n2"
    android:orientation="vertical">
    <ImageView
        android:id="@+id/ima"
        android:layout_width="wrap_content"
        android:layout_height="277dp"
        android:layout_gravity="center"
        android:layout_marginLeft="150dp"
        android:layout_marginTop="1dp"
        android:scaleType="centerCrop"
        android:src="@drawable/img2" />
    <TextView
        android:id="@+id/textTitle1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:fontFamily="sans-serif"
        android:gravity="center"
        android:text="@string/titulo2"
        android:textColor="@color/colorPrimary"
        android:textSize="28sp" />
    <TextView
        android:id="@+id/textlar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="40dp"
        android:fontFamily="sans-serif"
        android:gravity="center"
        android:text="@string/manejo2"
        android:textColor="@color/colorPrimary"
        android:textSize="28sp" />
```

```
<TextView
    android:id="@+id/gest"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="40dp"
    android:fontFamily="sans-serif"
    android:gravity="center"
    android:text="@string/estion"
    android:textColor="@color/colorPrimary"
    android:textSize="28sp" />
<LinearLayout
    android:id="@+id/layoutNext"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal">
    <Button
        android:id="@+id/skip2"
        android:layout_width="141dp"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|start"
        android:background="@drawable/stylesnt"
        android:text="@string/skip"
        android:textColor="@color/colorWhite">
    </Button>
    <TextView
        android:id="@+id/textInc2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="bottom|start"
        android:layout_marginRight="15dp"
        android:layout_marginBottom="2dp"
        android:layout_weight="1"
        android:clickable="true"
        android:focusable="true"
        android:fontFamily="sans-serif"
        android:gravity="bottom|end"
        android:text="@string/done"
        android:textColor="@color/colorPrimary"
        android:textSize="20sp" />
    </LinearLayout>
</LinearLayout>
```

Código Java pantalla 2

```
public class n2 extends Fragment {
    private ViewPager viewPager;
    private View view;
    TextView textNextFace2;
    Button Next2;
    public n2() {
        // Required empty public constructor
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup
        container,
        Bundle savedInstanceState) {
        initializeInflater(inflater, container);

        //initialize components
        initializeComponents();

        //add click event to text Next and prev text
        addClickNextAndPrev();

        //return
        return view;
    }
}
```

```
public void initializeInflater(LayoutInflater inflater, ViewGroup
    container) {
    view = inflater.inflate(R.layout.fragment_n2, container,
        false);
}

public void initializeComponents() {
    viewPager =
        getActivity().findViewById(R.id.viewPagerContainer);

    textNextFace2 = view.findViewById(R.id.textInc2);
    Next2=view.findViewById(R.id.skip2);
}

public void addClickNextAndPrev() {

    textNextFace2.setOnClickListener(new
        View.OnClickListener() {
            @Override
            public void onClick(View v) {
                viewPager.setCurrentItem(2);
            }
        });
    Next2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            viewPager.setCurrentItem(2);
        }
    });
}
}
```

Adapter

```
public class OnboardingAdapter extends FragmentPagerAdapter
{
    public OnboardingAdapter(FragmentManager fm)
    {
        super(fm);
    }

    @NonNull
    @Override
    public Fragment getItem(int position)
    {
        switch (position)
        {
            case 0:
                return new n1();
            case 1:
                return new n2();
            case 2:
                return new n3();

            default:
                return null;
        }
    }

    @Override
    public int getCount()
    {
        return 3;
    }
}
```

Esto es para
declarar las
posiciones de los
fragments

Java Main

```
public class MainActivity extends AppCompatActivity
{
    private ViewPager viewPagerContainer;

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

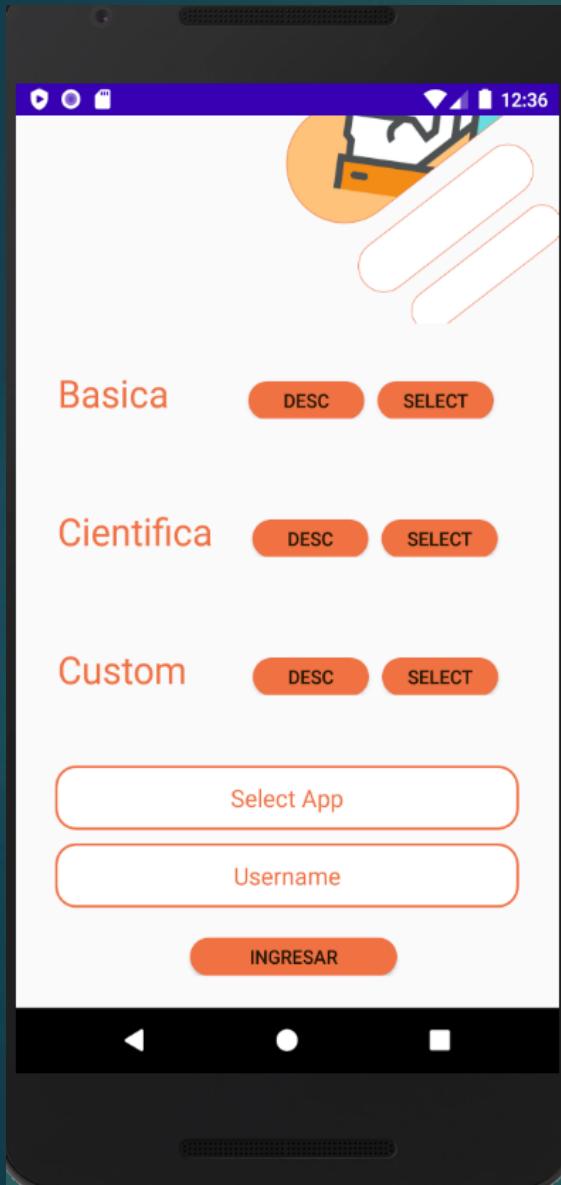
        //initializeComponents
        _initializeComponents();

        //initializeAdapter
        _initializeFragmentAdapter();
    }

    public void _initializeComponents()
    {
        viewPagerContainer = findViewById(R.id.viewPagerContainer);
    }

    public void _initializeFragmentAdapter()
    {
        OnboardingAdapter adapter = new OnboardingAdapter(getSupportFragmentManager());
        viewPagerContainer.setAdapter(adapter);
    }
}
```


Generar la ACTIVITY de acceso a la aplicación. Debe estar presente diseño y funcionalidad.



```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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"
    tools:context=".Onboarding.n1"
    android:orientation="vertical">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="154dp"
        android:gravity="center"
        android:orientation="horizontal">
        <ImageView
            android:id="@+id/ima"
            android:layout_width="wrap_content"
            android:layout_height="277dp"
            android:layout_gravity="center"
            android:layout_marginLeft="200dp"
            android:layout_marginBottom="50dp"
            android:scaleType="centerCrop"
            android:src="@drawable/img3" />
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal"
        android:padding="32dp">
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:fontFamily="sans-serif"
            android:text="@string/asica"
            android:textColor="@color/colorPrimary"
            android:textSize="28sp" />
```

```
<Button
    android:id="@+id/d1"
    android:layout_width="wrap_content"
    android:layout_height="28dp"
    android:layout_marginLeft="60dp"
    android:background="@drawable/stylesheet"
    android:text="@string/Dex" />
<Button
    android:id="@+id/s1"
    android:layout_width="wrap_content"
    android:layout_height="28dp"
    android:layout_marginLeft="10dp"
    android:background="@drawable/stylesheet"
    android:text="@string/select" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:padding="32dp">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif"
        android:text="@string/asica1"
        android:textColor="@color/colorPrimary"
        android:textSize="28sp" />
    <Button
        android:id="@+id/d2"
        android:layout_width="wrap_content"
        android:layout_height="28dp"
        android:layout_marginLeft="30dp"
        android:background="@drawable/stylesheet"
        android:text="@string/Dex" />
    <Button
        android:id="@+id/s2"
        android:layout_width="wrap_content"
        android:layout_height="28dp"
        android:layout_marginLeft="10dp"
        android:background="@drawable/stylesheet"
        android:text="@string/select" />
```



```

</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:padding="32dp">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif"
        android:text="@string/asica2"
        android:textColor="@color/colorPrimary"
        android:textSize="28sp" />
    <Button
        android:id="@+id/d3"
        android:layout_width="wrap_content"
        android:layout_height="28dp"
        android:layout_marginLeft="50dp"
        android:background="@drawable/stylesheet"
        android:text="@string/Dex" />
    <Button
        android:id="@+id/s3"
        android:layout_width="wrap_content"
        android:layout_height="28dp"
        android:layout_marginLeft="10dp"
        android:background="@drawable/stylesheet"
        android:text="@string/select" />
</LinearLayout>

```

```

<EditText
    android:id="@+id/etselect"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="30dp"
    android:background="@drawable/et_style"
    android:fontFamily="sans-serif"
    android:hint="@string/selecapp"
    android:textColorHint="@color/colorPrimary"
    android:inputType="textEmailAddress"
    android:textAlignment="center">
</EditText>
<EditText
    android:id="@+id/etUsername"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginLeft="30dp"
    android:layout_marginTop="10dp"
    android:layout_marginRight="30dp"
    android:background="@drawable/et_style"
    android:fontFamily="sans-serif"
    android:hint="@string/username"
    android:textColorHint="@color/colorPrimary"
    android:textAlignment="center">
</EditText>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:padding="22dp"
    android:gravity="center">
    <Button
        android:id="@+id/btnIn"
        android:layout_width="157dp"
        android:layout_height="28dp"
        android:layout_marginLeft="10dp"
        android:background="@drawable/stylesheet"
        android:text="@string/in" />
    </LinearLayout>
</LinearLayout>

```

Código Java pantalla 2

```
public class n3 extends Fragment
{
    private ViewPager viewPager;
    private View view;
    private Button bti,d1,d2,d3,s1,s2,s3;
    private EditText etsel,etUser;

    public n3()
    {
        // Required empty public constructor
    }

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState)
    {
        //initialize viewPager from main activity
        initializeInflater(inflater, container);

        //initialize components
        initializeComponents();

        //add click event to text Next and prev text
        eventClickAction();

        //return
        return view;
    }

    public void initializeInflater(LayoutInflater inflater, ViewGroup
        container)
    {
        view = inflater.inflate(R.layout.fragment_n3, container, false);
    }
}
```

```
public void initializeComponents()
{
    viewPager = getActivity().findViewById(R.id.viewPagerContainer);

    d1 = view.findViewById(R.id.d1);
    d2 = view.findViewById(R.id.d2);
    d3 = view.findViewById(R.id.d3);
    s1 = view.findViewById(R.id.s1);
    s2 = view.findViewById(R.id.s2);
    s3 = view.findViewById(R.id.s3);
    etsel = view.findViewById(R.id.etseselect);
    etUser = view.findViewById(R.id.etUsername);
    bti = view.findViewById(R.id.btnIn);
}

public void eventClickAction()
{
    d1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Toast.makeText(getActivity(), "Calculadora con operaciones simples básica",
                Toast.LENGTH_SHORT).show();
        }
    });

    d2.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Toast.makeText(getActivity(), "Calculadora con operaciones avanzadas",
                Toast.LENGTH_SHORT).show();
        }
    });

    d3.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View v) {
            Toast.makeText(getActivity(), "Calculadora con operaciones para
            programadores", Toast.LENGTH_SHORT).show();
        }
    });
}
```

```

s1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        etset.setText("Basica");
    }
});
s2.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        etset.setText("Cientifica");
    }
});
s3.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        etset.setText("Custom");
    }
});

```

```

bti.setOnClickListener(new View.OnClickListener()
{
    @Override
    public void onClick(View v)
    {
        String selct = etset.getText().toString().trim();
        String username = etUser.getText().toString().trim();

        if(username.equals("") || selct.equals(""))
        {
            Toast.makeText(getActivity(), "Ingrese Select/Username",
Toast.LENGTH_SHORT).show();
        }
        else if(selct.equals("Custom"))
        {
            Intent intent = new Intent(getActivity(), CalcCustom.class);
            intent.putExtra("US", username);
            intent.putExtra("AS", selct);
            startActivity(intent);
            getActivity().finish();
        }
        else if(selct.equals("Basica"))
        {
            Intent intent = new Intent(getActivity(), CalcBasica.class);
            intent.putExtra("US", username);
            intent.putExtra("AS", selct);
            startActivity(intent);
            getActivity().finish();
        }
        else if(selct.equals("Cientifica"))
        {
            Intent intent = new Intent(getActivity(), CalcCientiffica.class);
            intent.putExtra("US", username);
            intent.putExtra("AS", selct);
            startActivity(intent);
            getActivity().finish();
        }
        else{
            Toast.makeText(getActivity(), "Seleccione alguna calculadora",
Toast.LENGTH_SHORT).show();
        }
    }
});
}
}

```

Implementar una APP calculadora CUSTOM.



```
<?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="match_parent"
    tools:context=".MainActivity"
    android:orientation="vertical"
    android:gravity="center"
    android:layout_marginLeft="20dp"
    android:layout_marginRight="20dp"
    android:layout_marginTop="20dp">
    <LinearLayout
        android:layout_width="254dp"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:orientation="vertical"
        android:padding="50px">
        <TextView
            android:id="@+id/tvShowU2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textColor="@color/colorPrimary"
            android:textSize="20sp">
        </TextView>
        <TextView
            android:id="@+id/tvShowS2"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:textColor="@color/colorPrimary"
            android:textSize="20sp">
        </TextView>
    </LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:layout_gravity="center"
    android:layout_marginTop="20dp">
    <EditText
        android:id="@+id/txt"
        android:background="@drawable/et_style"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginRight="20dp"
        android:layout_marginLeft="20dp"
        android:layout_marginBottom="20dp"/>
    </LinearLayout>
    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_gravity="center">
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal"
            android:gravity="center">
            <Button
                android:id="@+id/c1"
                android:layout_marginRight="10px"
                android:background="@drawable/stylesnt"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="x2" />
```

```

<Button
    android:id="@+id/c2"
    android:layout_marginRight="10px"
    android:background="@drawable/stylesnt"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="x3" />

<Button
    android:id="@+id/c3"
    android:layout_marginRight="10px"
    android:background="@drawable/stylesnt"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="!n" />

<Button
    android:id="@+id/c4"
    android:layout_marginRight="10px"
    android:background="@drawable/stylesnt"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Σn" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center">
    <Button
        android:id="@+id/nt1"
        android:layout_marginRight="10px"
        android:background="@drawable/stylesnt"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="1" />

```

```

<Button
    android:id="@+id/nt2"
    android:layout_marginRight="10px"
    android:background="@drawable/stylesnt"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="2" />
<Button
    android:id="@+id/nt3"
    android:layout_marginRight="10px"
    android:background="@drawable/stylesnt"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="3 " />
<Button
    android:id="@+id/nt4"
    android:layout_marginRight="10px"
    android:background="@drawable/stylesnt"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="4 " />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center">
    <Button
        android:id="@+id/nt0"
        android:layout_marginRight="10px"
        android:background="@drawable/stylesnt"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="0" />

```

```

<Button
    android:id="@+id/ntshf"
    android:layout_marginRight="10px"
    android:background="@drawable/shiftstyle"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="Shift" />
    <Button
        android:id="@+id/ntclean"
        android:background="@drawable/stylesheet"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Clean" />
</LinearLayout>
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
    <Button
        android:id="@+id/ntmas"
        android:layout_marginRight="10px"
        android:background="@drawable/stylesheet"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/mas" />
    <Button
        android:id="@+id/ntmenos"
        android:layout_marginRight="10px"
        android:background="@drawable/stylesheet"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/menos" />
    <Button
        android:id="@+id/ntdi"
        android:background="@drawable/stylesheet"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="@string/di" />
/>

```

```

<Button
    android:id="@+id/ntmulti"
    android:layout_marginRight="10px"
    android:background="@drawable/stylesheet"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="@string/multi" />/>
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center">
    <Button
        android:id="@+id/ntiual"
        android:background="@drawable/stylesheet"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="" />
</LinearLayout>
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center">
    <Button
        android:id="@+id/cls"
        android:layout_width="177dp"
        android:layout_height="wrap_content"
        android:background="@drawable/stylesheet"
        android:text="Close App" />
</LinearLayout>
</LinearLayout>

```


Código Java calc Custom

```
Public class CalcCustom extends AppCompatActivity implements
View.OnClickListener {
    private EditText txt;
    private Button cerrar,
    btn1,btn2,btn3,btn4,btn0,btncl,btnshift,btsuma,btnigual,btres,
    btmulti,btdi,cm1,cm2,cm3,cm4;
    int operaciones;
    double operan1,operan2;
    double operan3=1;
    double operan4=0;
    double resul;
    int clicks = 1;
    private TextView tvShowU2,tvShows2;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_calc_custom);
        initializeVariables();
    }

    public void initializeVariables(){
        tvShowU2 = findViewById(R.id.tvShowU2);
        tvShows2 = findViewById(R.id.tvShowS2);
        String username = getIntent().getStringExtra("US");
        String select = getIntent().getStringExtra("AS");
        String msg1 = "App: " + select;
        String msg = "Bienvenido: " + username;

        tvShowU2.setText(msg);
        tvShows2.setText(msg1);
    }
}
```

```
btn1 = findViewById(R.id.nt1);
btn2=findViewById(R.id.nt2);
btn3 = findViewById(R.id.nt3);
btn4 = findViewById(R.id.nt4);
btn0=findViewById(R.id.nt0);
btsuma= findViewById(R.id.ntmas);
btres= findViewById(R.id.ntmenos);
btmulti=findViewById(R.id.ntmulti);
btdi=findViewById(R.id.ntdi);
txt = findViewById(R.id.txt);
btnigual=findViewById(R.id.ntiual);
btnshift=findViewById(R.id.ntshf);
cm1=findViewById(R.id.c1);
cm2=findViewById(R.id.c2);
cm3=findViewById(R.id.c3);
cm4=findViewById(R.id.c4);
cerrar=findViewById(R.id.cls);
btncl=findViewById(R.id.ntclean);
cerrar.setOnClickListener(this);
btncl.setOnClickListener(this);
btnigual.setOnClickListener(this);
btn1.setOnClickListener(this);
btn2.setOnClickListener(this);
btn3.setOnClickListener(this);
btn4.setOnClickListener(this);
btnshift.setOnClickListener(this);
cm1.setOnClickListener(this);
cm2.setOnClickListener(this);
cm3.setOnClickListener(this);
cm4.setOnClickListener(this);
btn0.setOnClickListener(this);
btsuma.setOnClickListener(this);
btres.setOnClickListener(this);
btmulti.setOnClickListener(this);
btdi.setOnClickListener(this);
}
```



```

@Override
public void onClick(View v) {
    switch (v.getId()) {
        case R.id.cls:
            finish();
            break;
        case R.id.ntclean:
            txt.setText("");
            break;
        case R.id.nt1:
            String dato = txt.getText().toString();
            dato = dato + "1";
            txt.setText(dato);
            break;
        case R.id.nt2:
            String dato1 = txt.getText().toString();
            dato1 = dato1 + "2";
            txt.setText(dato1);
            break;

        case R.id.nt3:
            String dato2 = txt.getText().toString();
            dato2 = dato2 + "3";
            txt.setText(dato2);
            break;
    }
}

```

```

case R.id.nt4:
    String dato4 = txt.getText().toString();
    dato4 = dato4 + "4";
    txt.setText(dato4);
    break;
case R.id.nt0:
    String dato3 = txt.getText().toString();
    dato3 = dato3 + "0";
    txt.setText(dato3);
    break;
case R.id.ntmas:
    String sum = txt.getText().toString();
    if (sum.equals("")) {
        Toast.makeText(this, "Introducir números", Toast.LENGTH_SHORT).show();
    } else {
        operan1 = operan1 + Double.parseDouble(sum);
        txt.setText("");
        operaciones = 1;
    }
    break;
case R.id.ntmenos:
    operan1 = 0;
    if (operan4 < 1) {
        String auxi = txt.getText().toString();
        operan1 = Double.parseDouble(auxi) - operan1;
        operan3 = operan1;
    } else if (operan4 > 0) {
        String auxi = txt.getText().toString();
        operan1 = operan3 - Double.parseDouble(auxi);
    }

    operan4++;
    txt.setText("");
    operaciones = 2;
    break;

```

```

case R.id.ntmulti:
    operan1 = 1;
    String multi = txt.getText().toString();

    operan1 = operan3 * Double.parseDouble(multi);
    operan3 = operan1;

    txt.setText("");
    operaciones = 3;

    break;
case R.id.ntdi:
    if (operan4 < 1) {
        String di = txt.getText().toString();
        operan1 = Double.parseDouble(di) / operan3;
        operan3 = operan1;
    } else {
        String di = txt.getText().toString();
        operan1 = operan3 / Double.parseDouble(di);
        operan3 = operan1;
    }
    operan4++;
    txt.setText("");
    operaciones = 4;
    break;
case R.id.c2:
    String auxcm4;
    auxcm4 = cm2.getText().toString();
    if (auxcm4.equals("x3")) {
        Double res, res1;
        String cua = txt.getText().toString();
        res = Double.parseDouble(cua);
        res1 = Math.pow(res, 3);
        txt.setText("" + res1);
    }
    else{
        String par = txt.getText().toString();
        operan1 = Double.parseDouble(par);
        txt.setText("");
        operaciones = 5;
    }
    break;

```

```

case R.id.c1:
    String axcm1;
    axcm1 = cm1.getText().toString();
    if (axcm1.equals("x2")) {
        Double res, res1;
        String cua = txt.getText().toString();
        res = Double.parseDouble(cua);
        res1 = Math.pow(res, 2);
        txt.setText("" + res1);

    } else {
        Double res, res1;
        String cua = txt.getText().toString();
        res = Double.parseDouble(cua);
        res1 = Math.pow(res, 3);
        txt.setText("" + res1);
    }
    break;

```

```

case R.id.c3:
    String auxcm3;
    auxcm3 = cm3.getText().toString();
    if (auxcm3.equals("!n")) {
        double factorial = 1;
        String fac = txt.getText().toString();
        Double op11 = Double.parseDouble(fac);
        for (double i = op11; i > 0; i--) {
            factorial = factorial * i;
        }
        txt.setText("" + factorial);
    }
    else{
        try {
            String auxi = txt.getText().toString();
            operan1 = Double.parseDouble(auxi);
            int cw =0;
            int w1 =1;
            int w2;
            int sums =0;
            for(double i = 1;i<=operan1;i++)
            {
                w2 = cw;
                cw = w1 +cw;
                w1 = w2;
                sums = sums + w1;
            }
            txt.setText(""+sums);
            operan1=0;
        }
        catch (Exception E)
        {
            Toast.makeText(getApplicationContext(),"Revise los
datos",Toast.LENGTH_LONG).show();
        } }
        break;

```

```

case R.id.c4:
    String acm4;

    acm4 = cm4.getText().toString();
    if (acm4.equals("Σn")) {
        try {
            double ar=0;
            String auxi = txt.getText().toString();
            Double aux11 = Double.parseDouble(auxi);
            for(Double i = aux11;i>0;i--)
            {
                ar = ar+i;
            }
            txt.setText(""+ar);
        }
        catch (Exception a)
        {
            Toast.makeText(getApplicationContext(),"Revise los
datos",Toast.LENGTH_LONG).show();
        }
    }
    else{
        try {

            String auxi = txt.getText().toString();
            operan1 = Double.parseDouble(auxi);
            txt.setText("");
            operaciones=6;
        }
        catch (Exception a)
        {
            Toast.makeText(getApplicationContext(),"Revise los
datos",Toast.LENGTH_LONG).show();
        }
    }
    break;

```

```

case R.id.ntshf:
    clicks++;
    if(clicks%2==0){
        datosbtone2();
    }
    else {
        datosbtone1();
    }
    break;

case R.id.ntiual:
    String captura = txt.getText().toString();
    if (captura.equals("")) {
        Toast.makeText(this, "Introducir números",
Toast.LENGTH_SHORT).show();
    }
    else{
        operan2 = Double.parseDouble(captura);
        txt.setText("");
        if (operaciones == 1) {
            resul = operan1 + operan2;
        }
        else if (operaciones == 2)
        {
            resul = operan1 - operan2;
        }
        else if (operaciones == 3)
        {
            resul = operan1 * operan2;
        }
        else if (operaciones == 4)
        {
            if (operaciones == 0) {
                txt.setText("Error al ingresar");
            }
            else {
                resul = operan1 / operan2;
            }
        }
        else if (operaciones == 5) {
            resul =Math.pow(operan1,operan2);
        }
    }
}

```

```

else if(operaciones==6)
    {
        for(Double i = operan1;i<=operan2;i++)
        {
            resul = resul+i;
        }
        txt.setText("" + resul);
        operan1 = 0.0;
        operan3 = 1.0;
        operan4 = 0;}
    break;
}
}

```

```

public void datosbtone1(){
    cm1.setText("x2");
    cm2.setText("x3");
    cm3.setText("!n");
    cm4.setText("Σn");
}
public void datosbtone2(){
    cm1.setText("x3");
    cm2.setText("XY");
    cm3.setText("Σfibonacci");
    cm4.setText("Σnxy");
}
}

```

Strings

```
<string name="app_name">Examenhito3</string>
<string name="titulo">SOME</string>
<string name="titulo2">DEFENSA HITO 3</string>
<string name="manejo2">Univ:Samuel Maldonado</string>
<string name="estion">Gestion:2020</string>
<string name="done">Next</string>>
<string name="skip">Skip</string>
<string name="asica">Basica</string>
<string name="asica1">Cientifica</string>
<string name="asica2">Custom</string>
<string name="selecapp">Select App</string>
<string name="username">Username</string>
<string name="in">Ingresar</string>
<string name="select">Select</string>
<string name="Dex">Desc</string>
<string name="manejo">Manejo de events,functions,activities y navigattion entre
screens</string>
<string name="mas">+</string>
<string name="menos">-</string>
<string name="multi">*</string>
<string name="di">/</string>
<string name="nume1">1</string>
<string name="nume2">2</string>
<string name="nume3">3</string>
<string name="nume4">4</string>
<string name="nume5">5</string>
<string name="nume6">6</string>
<string name="nume7">7</string>
<string name="nume8">8</string>
<string name="nume9">9</string>
<string name="nume0">0</string>
<string name="masmenos">+/-</string>
<string name="punto">.</string>
```

```
<string name="iual">=</string>
<string name="mass">+</string>
<string name="menoss">-</string>
<string name="multii">*</string>
<string name="dis">/</string>
<string name="c">C</string>
<string name="c2">C2</string>
<string name="flecha">(<-</string>
<string name="cuadrado">x2</string>
<string name="porcentaje">%</string>
<string name="R">R</string>
```

Estilos y colores

```
<color name="colorWhite">#FFFFFF</color>
<color name="colorPrimary">#F07243
</color>
<color name="colorPrimaryDark">#3700B3</color>
<color name="colorAccent">#03DAC5</color>
```

```
<style name="AppTheme" parent="Theme.AppCompat.Light.NoActionBar">
    <!-- Customize your theme here. -->
    <item name="colorPrimary">@color/colorPrimary</item>
    <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
    <item name="colorAccent">@color/colorAccent</item>
</style>
```

```
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android">
    <solid android:color="@color/colorAccent"/>
    <corners android:radius="15dp"/>
    <stroke android:width="1dp" android:color="@color/colorAccent"/>
</shape>
```

```
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android">
    <solid android:color="@color/colorPrimary"/>
    <corners android:radius="15dp"/>
    <stroke android:width="1dp" android:color="@color/colorPrimary"/>
</shape>
```

```
<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android">

    <solid android:color="@color/colorWhite"></solid>
    <corners android:radius="15dp"></corners>
    <stroke android:width="2dp" android:color="@color/colorPrimary"></stroke>
    <padding android:top="12dp" android:bottom="12dp" android:left="12dp" android:right="12dp"></padding>

</shape>
```