

For creating a new project:-

New file -> activity -> new view

For variable creation for widgets

Var xx= findViewById<type>(R.id.id of that widge)

For on click

btn.setOnClickListener()

```
{  
  
}
```

To change the text of text vie

Used to show our result

id.setText(e.toString())

To get text from date picker

Var a= (\${datePicker.year}-\${datePicker.month}-\${datePicker.dayOfMonth}\n")

DatePicker Age Calculator

```
class MainActivity : AppCompatActivity() {  
    @RequiresApi(Build.VERSION_CODES.O)  
    override fun onCreate(savedInstanceState: Bundle?) {  
        super.onCreate(savedInstanceState)  
        setContentView(R.layout.activity_main)  
        var pickDateBtn = findViewById<Button>(R.id.datPicker)  
        var selectedAge = findViewById<EditText>(R.id.age)  
        fun calculateAge(date: Long): Int {  
            val dob = Calendar.getInstance()  
            dob.timeInMillis = date  
            val today = Calendar.getInstance()  
            return today.get(Calendar.YEAR) - dob.get(Calendar.YEAR)  
        }  
        val datePickerListener = DatePickerDialog.OnDateSetListener { _, year, month, day ->  
            val calendar = Calendar.getInstance()  
            calendar.set(Calendar.YEAR, year)  
            calendar.set(Calendar.MONTH, month)  
            calendar.set(Calendar.DAY_OF_MONTH, day)
```

```

        val dateFormat = SimpleDateFormat("dd MMM YYYY", Locale.ENGLISH)
        selectedAge.setText(calculateAge(calendar.timeInMillis).toString())
    }
    pickDateBtn.setOnClickListener {
        val c = Calendar.getInstance()
        val mYear = c.get(Calendar.YEAR)
        val mMonth = c.get(Calendar.MONTH)
        val mDay = c.get(Calendar.DAY_OF_MONTH)
        val dateDialog = DatePickerDialog(it.context, datePickerListener, mYear, mMonth, mDay)
        dateDialog.datePicker.maxDate = Date().time
        dateDialog.show()
    }
}
}
Spinner

```

```

<Spinner
    android:id="@+id/states_spinner"
    android:layout_width="133dp"
    android:layout_height="36dp"
    android:layout_marginStart="244dp"
    android:layout_marginTop="248dp"
    android:text="State"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    tools:ignore="MissingConstraints" />

```

```

<?xml version="1.0" encoding="utf-8"?>
<resources ignore="MissingConstraints">
    <string name="app_name">21pw39_01</string>
    <string-array name="States_array">
        <item>AndhraPradesh</item>
        <item>Chandigarh</item>
        <item>Delhi</item>
        <item>Karnataka</item>
    
```

```
        <item>Mumbai</item>

        <item>Tamilnadu</item>

    </string-array>

</resources>
```

Main file

```
val spinner: Spinner = findViewById(R.id.states_spinner)
ArrayAdapter.createFromResource(
    this,
    R.array.States_array,
    android.R.layout.simple_spinner_item
).also { adapter ->
    // Specify the layout to use when the list of choices appears.

adapter.setDropDownViewResource(android.R.layout.simple_spinner_dropdown_item)
    // Apply the adapter to the spinner.
    spinner.adapter = adapter
}
```

String builder

```
val selectedItem = spinner.selectedItem.toString()

val data = StringBuilder()

data.append("Name: ${name.text.toString()}\n")
data.append("Password: ${pass.text.toString()}\n")
data.append("Address: ${adrs.text.toString()}\n")
data.append("Gender: ${if (m.isChecked) "Male" else "Female"}\n")
data.append("Age: ${age.text.toString()}\n")
data.append("Date of Birth: ${cal.year}-${cal.month}-${cal.dayOfMonth}\n")
data.append("State: $selectedItem\n")
```

```
Toast.makeText(this, data.toString(), Toast.LENGTH_LONG).show()

testview.setText(data.toString())
```

To do addition

```
var a = input1.text

    var b = input2.text

    var c = a.toString().toInt()

    var d= b.toString().toInt()

    var e = c+d

    sumre.setText(e.toString())
```

INTENT

```
intent = Intent(this, SecondActivity::class.java)

    var Name = fn.text.toString()

    var Name2= ln.text.toString()

    intent.putExtra("Firstname", "r i5ofr56")

    intent.putExtra("Lastname", ln.text.toString())

    startActivity(intent)

class SecondActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
```

```
super.onCreate(savedInstanceState)

setContentView(R.layout.activity_second)

val data:TextView = findViewById(R.id.textView6 )

var fs1 = intent.getStringExtra("Firstname")

var lsl= intent.getStringExtra("Lastname")

data.setText(fs1)

}

}
```