

Android Development – Day 4 Notes

1. LinearLayout

- 1 LinearLayout arranges views in a single direction.
- 2 Two orientations: vertical and horizontal.
- 3 vertical → Views placed top to bottom.
- 4 horizontal → Views placed left to right.

2. layout_weight

- 1 layout_weight is used to divide available space between views.
- 2 Useful for creating equal-sized buttons.
- 3 Commonly used in calculator UI and dashboards.
- 4 Parent layout can define weightSum for total distribution.

3. weightSum

- 1 Defines the total weight value in the parent LinearLayout.
- 2 Child views take space based on their layout_weight.
- 3 Example: weightSum = 4 and each child weight = 1 → equal width.

4. gravity

- 1 gravity is used to align content inside a view.
- 2 center → Align content to the middle.
- 3 center_horizontal → Center left and right.
- 4 center_vertical → Center top and bottom.
- 5 Used to properly position text and buttons.

5. layout_gravity

- 1 layout_gravity is used to position the view inside its parent.
- 2 Different from gravity (which aligns content inside the view).

6. Best Practices

- 1 Avoid using match_parent height for multiple children in vertical layout.
- 2 Use wrap_content or layout_weight for proper distribution.
- 3 Use margins and padding for spacing.
- 4 Plan UI structure before coding.

Goal of Day 4:

Understand LinearLayout orientation, weight distribution, gravity, and how to design equal-sized UI components like a calculator layout.