**Assignment 3**

**Exercise 1**

**a)**

In Material Design, a surface refers to the visual representation of a UI element, like cards or menus. Elevation and shadows are used to create a sense of depth and hierarchy between these surfaces. By layering shadows with different elevations, designers can visually indicate which elements are interactive or stacked on top of others.

**b)**

Material Design uses two key colors: a primary and a secondary. The primary color is the most prominent and is used for branding, action buttons, and other important elements. The secondary color provides a complementary accent and is used for things like background elements or text. A tonal palette is a set of colors derived from a single base color, including variations in lightness and darkness. These tones are named systematically using their shade (how light or dark they are) relative to the base color. For instance, a light tone might be called "primary50" and a dark tone "primary900".

**c)**

Each accent color role in Material Design consists of four tones to provide a range of color options for different UI contexts. This allows for creating contrast, readability, and subtle variations within an element based on its state (e.g., disabled button vs. pressed button).

**Exercise 2**

**b)**

* The selectable modifier has been removed from the Row.
* The onClick handler has been moved to the RadioButton, where it updates the selected option and triggers the respective vibration pattern.

With this change, the interaction pattern is altered:

* Users must click directly on the RadioButton to trigger the selection action and corresponding effects (like vibration).
* Clicking on other parts of the Row, including the text, will not trigger the onClick event.

This modification could reduce usability by requiring more precise clicks, especially in touch-based interfaces. To maintain intuitive interaction, keeping the selectable modifier on the Row ensures a larger clickable area, making it easier for users to select an option.