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COURSE	Operating System
SECTION	BSSE (5_1)

ASSIGNMENT #01

Task 01: Differences between versions of Android Operating System

Android is a mobile OS made by Google. Over time, many versions were released, each with improvements.

- **Android 1.0 – 1.6:** Basic features (Gmail, browser, widgets, video recording).
- **Android 2.0 – 2.3 (Eclair–Gingerbread):** Better user interface, faster, front camera support.
- **Android 3.0 (Honeycomb):** Made for tablets, new design.
- **Android 4.0 – 4.4 (Ice Cream Sandwich–KitKat):** Same design for mobiles and tablets, better multitasking.
- **Android 5.0 (Lollipop):** Material Design introduced, better battery use.
- **Android 6.0 (Marshmallow):** App permissions and Doze (battery saving).
- **Android 7.0 (Nougat):** Split-screen multitasking.
- **Android 8.0 (Oreo):** Picture-in-picture, notification dots.
- **Android 9.0 (Pie):** Gesture navigation, digital wellbeing.
- **Android 10:** Full gesture navigation, dark mode, privacy controls.
- **Android 11:** Chat bubbles, screen recording.
- **Android 12:** New design “Material You”, privacy dashboard.
- **Android 13–14:** More customization, better security, satellite support.

Each version mainly improves **speed, security, design, and user experience**.

Task 02: What do you expect from a new Operating System?

From a new OS, people usually want:

1. **Faster speed** – smooth apps and quick startup.
2. **Better battery life** – save power with smart features.
3. **Stronger security** – protect from hackers and viruses.
4. **Easy interface** – simple design, dark mode, themes.
5. **More multitasking** – use many apps at the same time.
6. **AI features** – smart suggestions, adaptive brightness.
7. **Better connectivity** – support 5G, satellite, smart devices.
8. **Gaming improvements** – smoother graphics, less lag.
9. **Support for new devices** – foldable phones, wearables.
10. **Developer tools** – APIs, testing, faster updates.

Task 03: Windows 8 Failure

Windows 8 failed for many reasons:

- **Confusing interface:** The new “Start Screen” with tiles was hard for desktop users.
- **Removed Start Menu:** People missed the old Start button, so many didn’t like it.
- **Touch-focused design:** It was made for tablets, but most people used laptops/PCs.
- **Compatibility issues:** Some old software and drivers didn’t work well.
- **Slow adoption:** Businesses and users preferred Windows 7 instead.

Because of this, Windows 8 was not popular, and Microsoft quickly replaced it with Windows 10.

Task 04: Windows Phone Failure

Windows Phones also failed, mainly because:

- **Few apps:** Most popular apps (Instagram, Snapchat, etc.) were missing or late.
- **Low developer support:** Developers focused on Android and iOS, not Windows.
- **Poor marketing:** Microsoft didn’t promote it well.
- **Late entry:** By the time it launched, Android and iOS were already dominating.
- **Weak ecosystem:** No strong link between phones, apps, and services.

Because of these reasons, Windows Phones could not compete and were discontinued.