

DATE: 01/Sep/2025

Operating System

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Section: SE 5-2

— : ASSIGNMENT 01 : —

∴ Task 01:-

Android is updated almost every year.

Each version adds new features, improves performance, and makes the system more secure.

Comparative Analysis of recent 3 versions:

• **Android 13 :-**

- Released 2022.

- Main Focus : **Personalization and Privacy**

- Allowed users to set different languages for different apps.

- Extended the "**Material You**" theme so that colors from the wallpaper applied to all apps.

- **New media permissions** → apps could only access selected photos or videos instead of entire gallery.

- **Nearby WIFI Devices Permission** → separates WIFI and GPS permission for better privacy.

- **Tablets - & - Large Screen:-** Improved support for Large Screens, tablets, and foldable devices. Improved multitasking with redesigned taskbar enabling faster app switching.

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- **Bluetooth LE Audio Support:** Improves audio quality and battery life on compatible devices.
- **Android 14: ~**
 - Released October 2023.
 - Main Focus: - **Accessibility, Efficiency, & Health.**
 - **Bigger Fonts with Smarter Scaling** to help people with weak eyesight.
 - **Accessibility Improvements** for users with vision or hearing difficulties.
 - **Privacy & Security** This version blocks ~~auditory~~ outdated apps which resulted in stronger protection. Stronger pin locks no animation after 6 digits. It also include selective media access.
 - **New Lock Screen Customization** - including widgets, clock styles, and weather.
 - **Ultra HD Image Support** - better color, light, and detail in photos and displays.
- **Android 15: ~** (coming in 2025)
~~Released~~ / Rolled Out October 2024
Main Focus: - **Performance, AI and Health tracking**
 - **AI Integration:-**
For smart replies, better photo-editing, and personalized suggestions.

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- **Theft Detection Lock**:- locks the device automatically, if it senses theft.
- **Private Space**:- hidden space for sensitive apps with separate authentication.
- **Multitasking Improvements**:- taskbar pinning, app pairing, and split-screen shortcuts for tablets.
- **Camera and Media**:- Low-Light Boost & Improved in app camera controls - especially useful for photography.
- **Predictive back gestures by default**:- previews the previous screen on back swipe.
- **Additional UI and Security Features**:- adaptive vibration, default wallet app selection, shutdown and volume haptics, satellite messaging, USB lockdown, and edge to edge display.

∴ **Task 02** : ~

Expect from new operating system:-

I expect :-

- Faster performance with less battery consumptions.
- More AI-integration to simplify daily tasks.
- Enhanced security and privacy features to protect personal data.

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- A smoother user experience, free from unnecessary bloatware.
- Advanced device protection: the OS should have the ability to locate my device instantly if it is lost or stolen.

Task 03: ~

Reasons of Windows 8 Failure:-

- **Removed the Start Menu :-** The familiar start menu was replaced with the new start screen (Metro UI). Confusing UI
- **Designed For Touch, NOT FOR PC USERS:-**
- **Poor App Store:-**
- **Compatibility Issues:-**
- **Negative First Impression:-**
- **Lack of App Recognition**

Task 04:-

Reasons of Windows Phone Failure:-

- **App Gap (Biggest Reason)** Popular Apps like Instagram, Snapchat, Youtube and many banking apps were either missing or outdated version.
- **Poor Marketing and Branding.**
- **Late to Market.**
- **Weak support from Manufacturers:** Only Nokia (Later Microsoft Lumia) fully supported it. Other big brands like Samsung, HTC quickly stopped making windows phones.