****MOBILE APP****

****Mobile computing**** = use of technology that allows users to access & process info within an org using wireless & portable devices.

These devices are designed to be compact, lightweight.

Capable of performing various tasks (Apps) from browsing & internet to running apps (Music).

****Classification of Mobile Computing****

* Personal Digital Assistant (PDA)
* Smartphones
* Tablet & iPad

****Adv of Mob Comp****

* Location Flexibility
* Saves Time
* Entertainment
* Enhanced Productivity
* Ease of Research
* Improved User Experience

****Disadv****

* Security
* Device size Limitation
* Issues with connectivity
* Power consumption

****Concept of Mob Comp****

Mobile Communication

Mobile Hardware

Mobile Software

****Mobile Hardware**** = device component that receive or access a service of mobility. Range from laptops, smartphones, tablets etc. Eg are configured to operate in full display.

****Mobile Software**** = actual program that runs on a mobile hardware & engine of mobile device OS.

****Mobile Applications****  
Software prog designed specifically designed to run on mobile devices such as smartphones & tablets. Created to perform specific fun (playing game, messaging, fitness).

****Types of mobile application.****

1. Hybrid = cross platform compatibility. App are built using combination of web technologies & native code.
2. Webapps: mobile-optimized websites accessed through a browser. Do not need to be downloaded.
3. Native: developed to function using OS such as iOS, Windows etc. Eg WhatsApp, video navigation apps.

****Technologies Used:**** C++, Java, Kotlin, Python

****Pro****

* Fast Performance
* Required Resources
* Works offline (eg Camera app)

****Con****

* Single platform
* Cost
* High maintenance
* Web app can be accessed via stable internet connection eg Netflix & Flipboard.

****Technologies used:**** Python, Rust, PHP

****Pro****

* Affordable cost
* Easy deployment
* No approval of App store

****Con****

* Only web browser
* Require internet
* Fewer features

****Hybrid apps:**** eg Instagram & Amazon. Frameworks: React Native & Cordova.  
****Technologies used:**** CSS, Flutter, Java, JavaScript

****Mobile Communication****: specifies & formulates responsible for networking of mobile computing tech. Included devices like protocol services, bandwidth & portals.

****Mobile Computing****

Fixed (wired)

Fixed (wireless)

Mobile (wired)

Mobile (wireless)

****Wireless Network****

* no physical configuration
* high data loss
* Latency is high (delay)
* less secured (hacked)

****Fixed Networks****

* physical configuration
* data loss rate is very low
* no issue of latency
* highly secured