

Assignment no C4

1.Title-:

Study assignment on processing scheduling algorithms in Android and Tizen

2.Objective-:

- To understand Android OS
- To understand Tizen OS
- To understand concept of process management

3.Problem Statement-:

Study assignment on processing scheduling algorithms in Android and Tizen

4.Theory concepts-:

Android OS :Android is a mobile operating system developed by Google based on a modified version of Linux kernel and other open source software and designed primarily for touchscreen mobile devices such as smartphones and tablets.

Some Android Versions-:

- GingerBread
- HoneyComb
- Ice Cream Sandwich
- Jelly Bean
- KitKat
- Lollipop
- Marshmallow
- Nougat
- Oreo

Advantages-:

- Supports 2D and 3D graphics
- Supports multiple languages
- Java support
- Faster web browser
- Supports Audio, video

Disadvantages-:

- Slow response
- Advertisements

Tizen OS-:

It is a middle OS developed by Samsung that runs on a wide range of Samsung devices, including smartphones, tablets etc.

Versions-:

- Tizen 1.0
- Tizen 2.0
- Tizen 3.0
-

Process Scheduling Algorithms in Android and Tizen OS-:

Android uses two different mechanisms when scheduling the linux Kernel to perform process level scheduling

- Real Time Scheduling
- Thread Scheduling

Android's thread scheduler uses two main factors to determine scheduling-:

- Niceness value
- Control Groups

Priority Based Preemptive Task Scheduling is also used by Android OS

Fixed Priority Preemptive Scheduling- is commonly used in real time systems.

5.Conclusion-:

Thus,I have studied concept of process scheduling of Android and Tizen OS.