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20K-1044

BS-SE (5A)

ASSIGNMENT #1

OPERATING SYSTEM

Charlestonic was all of the desired

THE THE PARTY OF T

- i) At Home :-
- Laptop, Mobile Phones
- Smart TV
- -> Calculator
- ii) In Office
 - → Laptop
- -> Printer
- -> Projector
- iii) During Commute
- -> Smart Phones
- -> Laptop

At Home 8 (He might used Distributed OS some of them are)

> Windows (for easy to use interface)

Android/IOS (Smart Phones Os for interact with apps)

-> Linux (For high speed and security and objice related work)

At Office: -

-Windows (Above reason)

-> Android/IOS (Above reason)

-> LINUX (Most Corporate organization work with Linux for security purpose)

During Commute.

Windows (Above reason)

Android Ios (Abore reason)

At Home :

- Multicore Processor (allows to run multiple process at a time)
- Symmetric Processor (shared Memory for all task assigned)
 - -> Single core (he probably work simple tasks that can easily handly by single core processor)

At Office

- -> Symmetric processor (Above Reason)
- -> Multicore Processor (Above Reason)

During Commute

- -> Single core (Above reason)
- Asymmetric (No shared memory, master processor is controlling tasks)

At Home

- resonal computing environment used by a single user where he may perform what he likes (PC).
- Network Computing environment such as LAN may be used to exchange information alound the world.

At Office.

- System management to organize and divide the task blw different servers & client.
- Time sharing environment can be used as that multiple users are interacting with central CPU.
 - -> fersonal Computing environment can also be used for above reason.

During Commute

le sonal computing environment for above reason.

At Home

General Ledger (RPA can help in organizing data)

At Office:

Fraud & Deletion (RPA can identify and flag the thout)

Q.6

1-Direction or nevigation API

2- Maps API

ARDUINO	Q.7 Rasberry Pi
→ It can perform single task at time.	→It can perform multiple task at a time
-> Non efficient Processor	-> Elficient Processor.

IUS

FIndroid

-> Only has two rows of app icons.

Allow use if widgets that acts up to clate information of weather etc on screen.

- Swift, C.C++ is used as a Programming Language.

- Java, kotlin, XML, TS used a programming Language.

-> Xcode is used for development -> Android Studio is used for

development.

Emulation

Simulation

> used to replicate original | software and hardware.

It is on environment which model after a real software-

JENample blue stacks (Android Enample calculator on many apps on pe)

devices (PC,Mobile) mimics behavior of a calculator

Applications are always dependent upon operating system cus os provide basic needs such as memory management process management, input, output etc. Since applications require memory and CPU cycle the operating system is the only environment that canned the hardware and send it to kernal and that is why applications are operating system dependent.

Internet of Thingsis

Architecture:

IOTI computer technology, control image display and communication technology to convert various facilities through the network. Anything in our home that uses electricity can be put on the home network Receivers are used to delete signal from transmitter that gives user command.

Computing Environment:

A simple personal computing environment is used interm of operating system structure, this allow the device to be able to connect easily.

Communication Needs:

The communication needs of its that we need some sort of help that can give our commands to our device so most of the smartphone devices are radio powered we give commands through. Transmitter (telling light to be on or off) and the receiver on the device receives a perform that requirements