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P20-0108

Q1. Examples of computing machines he uses: /10

i. At home   :

ii. In office   :

iii. During commute   :

Monitors (pc, computers)
Laptops

Q2. Give the name of operating systems (centralized/distributed), he might be using and the reason to use that particular system:

   i.   At home
- Android , Apple etc because it is user friendly for many people they can use android easily

   ii.   In office
- In office os are used windows or linux (ubuntu) because In Office ,workers have to work in laptops so they need these os

   iii.   During commute
- Android , Apple etc because it is user friendly for many people they can use android easily

Q4. The examples of computing environment he interacts , the purpose of interaction:

i. At home:
   - Virtualization we use virtualization like if we get any assignment which we have to do in other os which is not installed in our system so we use virtualization to do so we use 2 os in a single cpu like we are doing in this semester firstly in our system there was only one os that was window now we have to do tasks which are given in ubuntu…

ii. At office
   - At office client server interacts most coz if two or three cpu send requests to printer for printing then the printer will printer print according to the sequence

iii. During commute
   - At During commute computer environment that is interacted is Peer to peer because we share something with our traverls AT DURING commute that is much easier than all other at Commute

Q5. Give example of task automation that can help a banker /5

i. At home
   - Account closure Processing

ii. At office
   - Credit card Application processing

Q6. List two of the APIs that are used frequently by most of the drivers using mobile services during

- There are two most frequently used api are
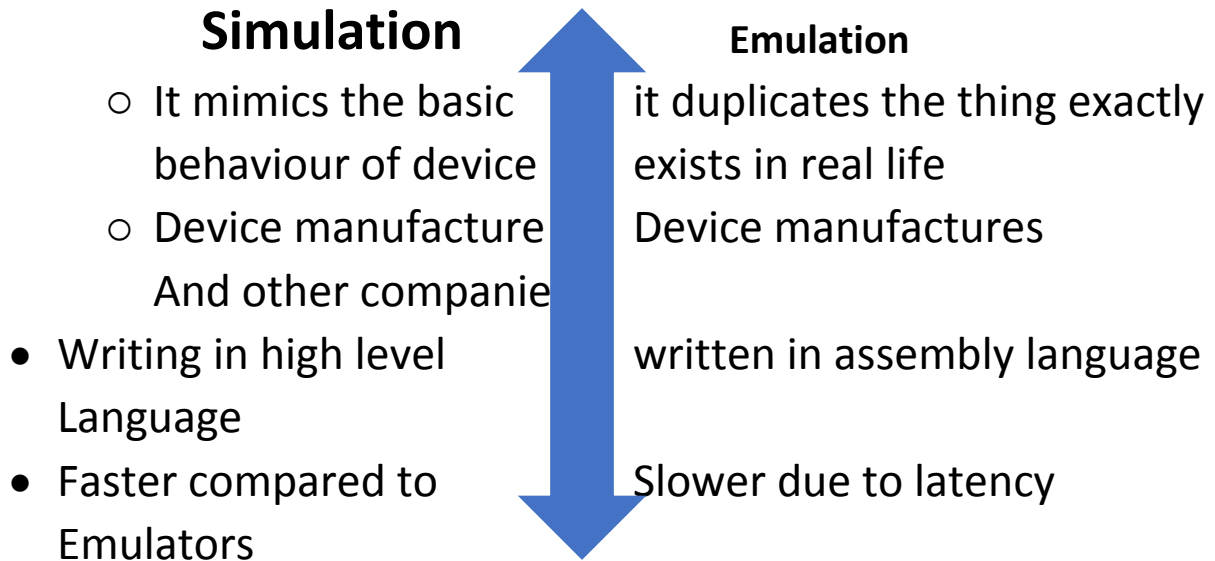- Facebook
- Youtube

Q7 Differentiate

Aurdino   **Raspberry pi**

- Aurdino aimed it quick

  Programing and circuit
  Prototyping

- Aurdino is example of single
  Tasking
- Aurdino is microcontroller

- it acts as learning tool

- It is microprocessor

Simulation	**Emulation**
○ It mimics the basic behaviour of device	it duplicates the thing exactly exists in real life
○ Device manufacture And other companie	Device manufactures
• Writing in high level Language	written in assembly language
• Faster compared to Emulators	Slower due to latency

Q8 Why applications are operating system dependent? Explain briefly.

Application depends upon os. But it doesn't depend upon application software. It provides pasth to execute to run application software it runs when user desires to run application

Q9 Pick one of the applications shown in smart city and discuss its architecture, computing environment,communication needs in terms of operating system concepts.

Smart Building:

Smart buildings are characterized by the **use of wholly integrated systems, that share vital information**. They use IoT sensors, raised floors and building

automation to control nearly everything: HVAC, lighting, shading, security–even user-centric functions like wayfinding and conference room scheduling.