> D"HCI arrises in our devily life," origlain with appropriate figure.

Ans: Human Computer Intercaction (HCI) Is the study of how people use computer systems to perform certain tasks.

Some everyday examples of HCI in our daily life ?

- 1) Waking Up?
 - a) Alarom Clock &



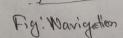
Fig. Alexan Clock

Abrom elock helps us to wake up to a sound ore deasent terme from HCI design. Simple interfaces and smooze buttons batisfy even the most reductort rüsers.

2) Commuting 8

Navigation Apps. HCI helps us to easy travel using google maps on phones or any ph smaret devices. Easy

ravigation, real time traffic reports keep us going.



6) Online learning Platforms Burryone may access Udamy & sources O My Profile DM WP MERN LAMP

educational content via online platforms. Interactive learning, gamified learning, and personalized desboards keep students engaged.

fig: Online leatering dathorm

4) & Leisure and Enterdanment?

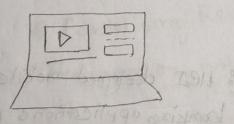
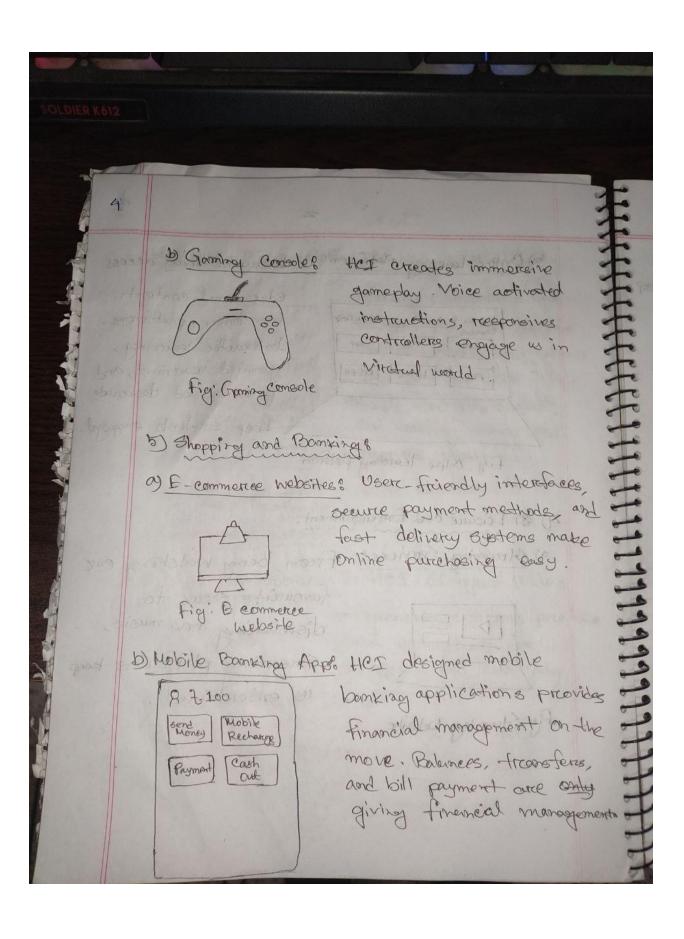


Fig: Streaming Website

a) Streaming Services! From being wortehing our favourite shows to discovering men music, Streaming platforms beep us entertained.



6

- > 1 How to achieve " userc-friendliness "in
- thou to achieve "user friendliness" in
 computer design? Con you suppost to such designes?

 Arise Some ways to achieve "user friendliness"

 in computers designs:

 from and functionalities that waters need

 clear and intuitive interaction.

 on and lechnical tarins and use

 are and visuals.

 evolving triends in technology
 and adapt the design

 liftims

 liftims

- 2) Duolinguo & This language learning app makes learning extending and interesting. Its lite-sized leatures and simple UI engage learners.
- 3) Spotify: This music streaming service customises, music for each user with personalized suggestions, curated playlists and cross-device playing.
- 4) figma: This collaborative design tools simplifies circultive teamwork with a simple UI and treal-time editing.
- 5) Apple Worten: The smartwatch seamlessly integreates health treacking, notifications and communication features with a simple design.

STRUCTURE THE STRUCTURE ST

-> (9) Briefly explain the following HCI goals safely, utility, effectiveness, efficiency, usability and appeal. Is their their any difference between cutility and effectiveness?

Aros Explain the HCI goals?

a) Efficiency: A measure of how fast users can finish their work using the system. Exts find a book from library website

b) Usability:

- b) Sufety & Presteeting the users from dangerrous conditions and undestreable situations.
- c) Utility: Extent of providing the reight Kind of functionality to that users can do what they need on want to do.
- ALLECTICITE CELECTIVITIES STATES STAT d) Effectiveness: Concern a user's ability to accomplish a desirced spal on to covery out WORK.

10 -Norman's 7 principles are 8 HELLECT TO THE TELEPTON TO THE STANDARD TO THE I) Use both knowledge in the world and knowledge in the head 2) Simplify the structure of tasks 3) Mare things visible 4) Get the mappings right 2 5) Exploit the powers of constraints, both natural and archificial 6) Design & for error 7) When all else fails, standardise. 6 Pull on Push? Which Norman's prainciple has been used? [Summer 2022, 5 Ca) Ans: From my perispective, Norman's 4th preincipal used. 4th preincipal of Norman is, Mak Get the mappings right.

(F) What are the activities involved in HCI design? Explain each with flow diagram. Identify needs/ establish rements Evaluate (Re) Design Build an interactive version) product Fig. Activities in HCI design Activities in HCI designs

CALLETTE TO THE CONTRACTOR OF THE SAME AND ASSESSED.

- DIdentify needs and establish requirements
- 2) Develop afternative designs
- 3) Build interactive preototypes that can be communicated and assessed
- 4) Evaluate what is being built throughout preocess inorgani enongolare is minuted

Vis

8 "Itercation is needed throughout the HCI come activities", why? Give an example. Amos The reasons that welly iteration is neededs

- 1) Underestanding user needs
- 2) Designing effective solutions
- 3) Evaluating performance (13/39/09)
- 4) Adapting to changing needs
- 5) Accounting for diversity

Exe Considere a mobile banking app

THE COUNTY OF TH Iteration 10 Designers create an initial prototype of the mobile banking app with basic features like account balance cheek and fund transfer

Iterative 28 Users provide feedback that they find the fund transfer process confusin and the layout could be morce inituitive.

Ditercation 3: Designers improving the fund precess and refining the layout for bother usuability.

Fletcation 40 Usetes now find the fund transfer process cleater, but they suggest adding a feature for transaction history.

Iteration 5: Designers include a transaction history tenture based on user feedback, completing the iderative cycle.

- The study of bridge between them, which includes observation of interactions", give any example and explain "the what else also a part of HeI study?

 Ans: The study of bridge between them, which includes,
 - 1) Observation of intercactions between people & computers. For example, find examination papers via our library web.
 - 2) Analysis of the involved intercactions. For example, Are all the steps involved are necessary?
 - 3) Human consequences after interacting with

filmess, and leisurce trips. Its adapti adaptability to diverse terrains and speeds makes it a versatile treamsportation option.

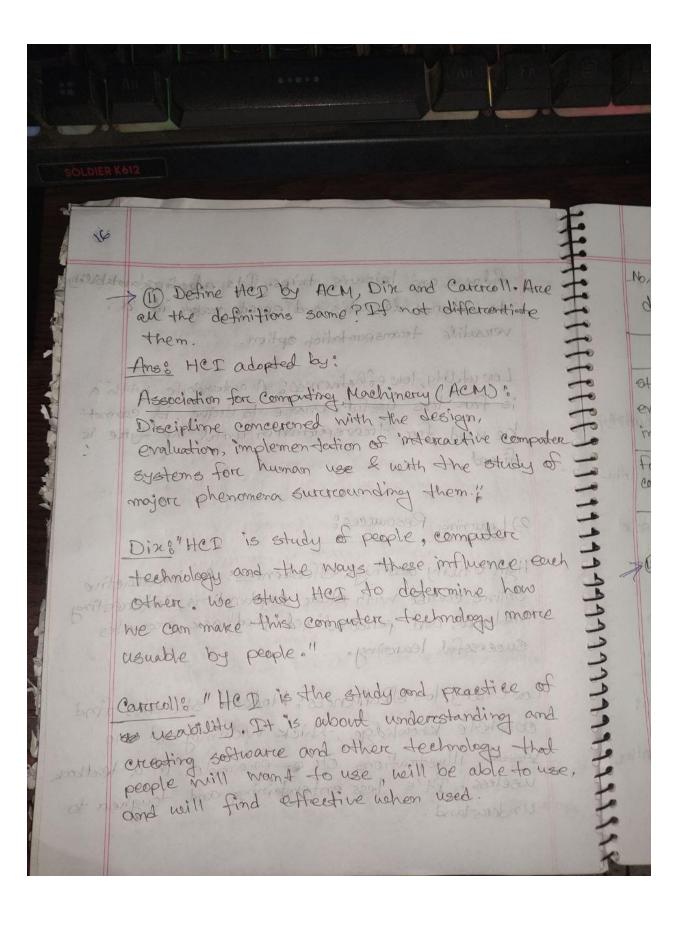
Low willity, low effectiveness? A automobile with a is fare less useful. Unsafe to dreive, it commot be used for treansportation until the tyre is fixed.

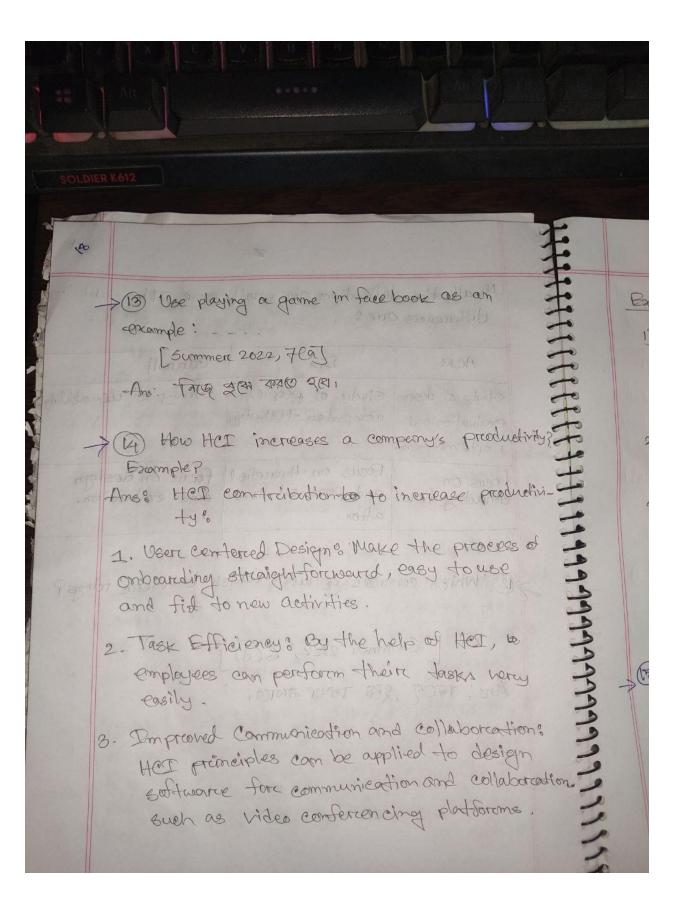
2) Learning Resources?

SYSTICE CELECTION STREET STREET

High Utility, and high effectioness: An interactive online course with clear explanations, interresting material, and personalized feedback premates successful learning.

Low Utility, low effectiveness? Moderon students find obsolete knowledge, thick writing and no visual illustrations on a examples in a textbook useless. It's less enterdaining and tougher to understand.





Bx. An HR Management Eystem.

- 1) Design a HR Management System with instructions mithitive design, narigation, clear instructions and reeducing manual work.
- 2) Implement a self-service features for leave reasuests, exponse reports.
- 3) Integrate data from different systems to ensure accuracy and eliminate redundancy.
- 4) Design the system with mobile accessibility in mind, allowing employees to manage the task reemotely.
- (5) "Workers in a maintained need.

[Summer 2022, 7(0)]

Ams: नित्र द्वारा यहार राषा

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