ASSIGNHENT - I 1)23 FUNDAMENTALS OF ONIDITING. Apple's Macintoch was described as a game-changer for the computer industry in 1980s. Justify the features and performance when compared to computers of earlier versions. made Hacintosh more appealing and approachable for home of Apple's Macintosh, introduced in 1984, & MOUSE INPUT: Hacintosh popularised the use of mouse as pormary input device Office environments as it required was indeed a game changer Poior to Macintosh, most computers less physical space. for computer industry due to relied on text based commande typed 5. DEVELOPER FRIENDLY several key features & performance on a keyboard the introduction of a ENVIRONMENT: mouse made it easier for user to Apple provided a comprehensive enhancements compared to interact point - and - click interaction Software development ket (SDK) earlier computers. Here are some that significantly improved user exposurce. for Hacintoch, making it easier justifications for its revolutionary for developers to create 3. INTEGRATED HARDWARE AND SOFTWARE: impact in 1980s. Macintosh computers were designed as applications for the platform. interface system with both hardware & DERAPHICAL USER INTERFACE (GUI): This led to a plethora of 3rd The Hacintosh was the strainstoream software tightly coupled this integration party software, further expanding Computer to feature a GUI, which resulted in more consistent and stable capabilities of Hacintosh and. Replaced earlier text based commandescherience compared to many earlier creating a vibrant ecosystem for line interface qui made computers computers. The seawless integration of more accessible & user friendly by hardware and software improved utilising icons, windows, menus performance & provided more reliable These features combined with a allowing user to navigate and developer - friendly environment, computing environment. operate system easily. This innovation revolutionized user experience, 4. COMPACT DESIGN: Macintoch compact empowered individuals and made computers morre approachable and all - in - one design with a built businesses and set new for non-technical users and opened in monitor, floppy disk drive and Standards for computer industry, keyboard was a departure from the up whole new world of possibilities making it true game larger & often clunky design of changer. earlier computers. This form factor

functionality and computing power and identify their applications. 2) Classify computers based on -> can soin a wide range of 1. Based on operating principle: \* MICRO COMPUTER! MICROPROCESCOR software applications including \* ANALOG COMPUTER: functions on productivity tools, games and APPLICATIONS: Offices, homes, schools. continuously varying quantity. entertainment software. APPLICATIONS: Electronic weighing \*MINI COMPUTER: fulliprocessor scale, heartbeat, temperature · Embedded systems. APPLICATIONS: Large industries, discrete numbers. · Specialised computer integrated within banks. other devices or systems for specific \* MAINFRAME COMPUTERS: Faster & APPLICATION: Business Found in various device such as \* HYBRID COMPUTER: combine qualities of both analog & APPLICATIONS ! Large industries, Smartphones, smart TV's, cars, medical equipment and leanks. digital number computers. \* SUPER COMPUTERS: Powerfull industrial control system. 2. Based on applications: Computers. · Server specific purposes like \* General Purpose: used for APPLICATIONS: Atomic Research. automation, monitoring, control & variety of tasks. APPLICATIONS: Business & Scientific research. connectivity. · PERSONAL COMPUTERS : \* Special Purpose: -> commonly used for general used for particular tasks purpose computing tasks such as APPLICATION: aircraft control web browsing, email, word exptern. processing, multimedia Consumption: which owner with all the own that he

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Draw and explain CPU architecture in detail stata & instructions are -> Responsible for communication stored here which are with IP & of P device. -) Not responsible for required for processing processing of data on -> Also stones immediate CPU storing data. or task when they're in CONTROL - - - 1 ALU (Arithmetic & process. Logical Unit ) 11 - Final gresults of processing HEMORY OUTPUT
UNIT INPUT 2 subsections are stored in memory unit 1 Aroithmetic section before these results are 2 Logic section. released to off device --> control BRITHMETICA ! Fetch: CPU gets the flow LOGICAL E-+ for giving output to instruction. That means -> Data flow. binary numbers that are VT. -> All sorte of UP & OP passed from RAM to CA SECONDARY 1 Decade: When instruction STORAGE are transmitted through is entered into CPU, it the architecture of the computer have not changed since decades, but technology used to accomplish meniony wit. needs to decode the CONTROL UNIT: instructions. scondrolling of data Extransfer those Operations may vary from I computer to Execute: After decade step of data is done among the instructions are another computer. other parts of computer. ready to execute. > Responsible for managing DHEMORY OR CHORAGE UNIT: all units of computer. immediate results. Storre: After execute > stores Instruction, datas, > Hain task is to obtain -> Responsible for transferring information to other step instructions are instruction or data which is ready to store in input from memory writ, meniory. - Its size affects speed, power, performance. inproets & directs operation.