14 March Lec 12 Thursday Multi-Talking (CN/ICT Course) I GAT a time, multiple testes perform loss 3 To do multiple things at a same time within a computer - 23 se mille gult a concept has G Mulhi-Threading Lo To do multiple things of some time within a program. Thread? Is at is sight energy process/program procedure Addrew space -> OS mai pashe the concept 48ih 1882 to exocution to live to space, &AM mai so area chalage hota joha codo, ale Sore tale. better would not look lake you show waters late - address spece Eile our interce -suite agra addres space. est our instance - vilce apre address spece -> Ager pose instance load kine la Sjays, shoring knowde tou apprinte knowle -It echoly shower address space of perent process, aprishare ni les robe tata. - Is lige ye Hers tagil Sporest e tor lights address III e e'l - there addres & Benefit of using thread: lelin shoring to si tou but si pollone hoss. Doedlack,

storydian, syrdianizan polino di med to ed Throads in Complex (3) TOS/ Kernel Were long - lend Alrech Hreads -2 Sirl ge CPU Le Tay will not directly pr execute tote execute on CPU 1) They map to your Kerna love Hreads phir OS unles CPU pr execute krusta. How to crade these user-level thread in Jon? How they will be mapped on your ayren larnel level throad take CRU pr excele knowle? Brugo go koise Aus excelo keise? Broye so kaise Hreels? First popur - we work using treats ue weale at that hing Jara mai simple se pagem di libble, tou Jux us presento sun knie ke lige threed lade. Aur 30 pollo pollo kale - uske I main thread valle. I de nei joke go Hobert likle System - - (Thread: current Thread()); State Chick's ni Hiral Six day of this clas Ja stote exists in ( It will show current Jerc. long . D rung threed) pela.

It iske grint laways go be is to be into ayest. - Emain, 5, main] none of I 14 C boset throad Its he who crede byy Throad so by yolan main libbe uski priority thread hai. Scheduling Algorithm How process will be adeaded on CAU? (UFO, FIFO, ---) a Jove ke threads CRU or koix exact legs? -> Only map like level land thinks you and -> [IVM] unko map but based on priorition brangerchely mass your user loved thread to system level threads boxedon Hose priorhos. 5,9/6C La Plotherm independence. Jore position JVM for each OS? - only rot one INM br 40 003? 3 Ora of reason is possibly sacket threats. Total priority levels = DO. 2 -> min princhy 5-> compar -lo a Lighest Ve CRU er execte ni lesego uses-lavel -Bud Dotol T = TH ambhier 7 - 2321-> Baloni mai levels. Difference dothe the ryed. 1-22-1 6 170 01 200

- in of E or i IIW works - Java mai jiha se threat credo kiego, rorme / defort privity = I be soll dage. - Perent presers stable routdo in memory until dild yours terrindes .... En () proces 3. 5 Men - 2 C store tod 1) child Ager poret powers primily & & Herrica too est temporer forcer (init process) engy kake Aild ke. Kuch process allow in kot he poset territe kne child se golla lakin Tina allow know No Os là tach ages due lote hu donny paret mous ourgr. => main threed is responsible to execute main further Control entry ich buster is Man Hosed bogi tocale to create knownte Too have Itld Aread to him breyese onle poset main thed degr. (t) priority main) Humare Alread Q k min he beed user level threads la porent -> mai thread

Eik programmei 2,3, a tooka 11 (pulled chal rule lage) - Titue CPU's, who multiple threads la exection del ale legs -> 2001 - single CEU -> tou volege jo multi-tooking moi lote. Try for sin borry How to create user lard threats? gome & music music suk rut be delp Thread - complete process - Switches of CAU. · Come mei Wergh on YCRU > Y Hireals of chine. 5 milkilles BT + Har Hreed oil Chups powerful (80 Who it blan Us switching of threeps diff cro to no he we. Thread 1, 2,3,4 dide YP oxi. I dat los on la system or maybe con 2 palle long He he 2ki Old pale: -> Ein hole po morphe contracte ex sur be slight veridion in requere depending he kaise assign hue ... - Suc treels les not ache. By depart main the prisonly to deld hogi. Aus han change lastle priorty (1-10). sout of early laters be exception som & com. were if sike fee 1) Using Interface (Runnoble): 2) Using class (Heread);

A Vou reed to crade a class class Tost implements Rumalle contect la very Resposible to bush do Only and buckey instending of his interce Gray. ar ( ) was (3- Overrido this function. Overribe void mil) The sur fred on is similed to main. exected fight bi Contral entry point stat got solet of four Hold - wherever your threed will get Usu, it will Eur its Eur fredion of the ke though file read both who who ye file reed our fricher mei krege. Aur is can relege to la, his or filo real prea. Obs wife - start except of con brown (3) U nova to create object of Threed down thread + = rew Threal scretary. Have we need to pow on poka instance of sumoble type. No object jis ke pour threed to poss bile. It's lee pour

3 Mai Head to ke control entry porthai. Myc pos his you? Is-a relabelity. Martest is a rumable type Test type to object years Thread to = now Thread (new Tost ()); & Threed crede laig. Elle inter losged trate longe FAMME (4) => You need to push this in Roady Quere COU process CIL US: X - 2 or 11 mg R Les Her las boro, Lon used to worke delle tostoxt(); wherever you will call stoot , it will pain it in-Rocky Quere mai ath quie mei lage he. The CDC milege the excels steat tegs. word ni libe Cycle of Treed; [ Born / New + new Meand (); Realy Quero byl cho () fro to pour jok so Ade \* Realy Drave post could Runnig Twist (Doda) I feel scorens A Tite Aroad to live vile, who ken them kinge, exodies Who, dead hogy - Sulpho every mi the, kis tist prints threed to asko niked be a say noi stay digo, yo to ore

thread to who sleep stile is this dry-Is no in state so bett tillege, her vo choloring le bow ni josto de ... no coops Quere mei jorg ge & ageir # will will from now Threal(): - shorn state Start (); - steely due on these OPU mile - Runny Cordida Civer quality, -> Dead him splice mai kan Who Ages interupt -> sleep / weit 6, 1/6 GOI is of 624. 5 realy 5 -19 c/ US 6 (RU 19) exects 5 Ge Cru