open boded excount Dy bleite a program that creates user interface to perform integraling The user enters two numbers in textfields. Num 1 & Name. The division of Mun 1 & Num 2 is displayed in Hesult field when divide button is clicked. If Num 1/Num 2 overe Not an integer, the program would throw Number Foundt xaption if num here are, the program would therew Agithmetic Exception Dicplay the exception in message dialog box import jour suing. import jana aut . *; public class Integer Dirusion App ? Public static void noun string xx[] I Frame Frame = new I Frame ("Integer Deinsion"). Frame . Let Default Close Operation (J Frame. EX17_ ON-Class frame . set size(400,200); france. settayoutlane Grid Layout (9,2,10,10)); Habel kbelNum1=new Thabel ("Nums1:"); J Textfield text Num = now J Textfield (); Jabel labelNam2 = now Thaball ("Num 2: "); I textified totalkosult = now I takel ("Result:"); J Toxtfield extRosult - now JText Field (1) ter tresult. set Editable (False);

JB atton direct Button = new Button ("Direct "); Frame add (lakel Num 1); Frame - add (textilum/); Frame - add (lebel Num 2); Frame add (text num); Frame add (bush Result); Frome add (textlesult); Frame add (divide Button); divide Button add Action Listener (now Action Listher!) 2 public void action/erformed Action Event e) 2 (int num?=Integer.parseInt(text.Num?.getText()); int num?=Integer.parseInt(text.Num?.getText()); 1f(xum 2==0) ? therow now Arethmetic Exception ("Cannot divide by zero") int res = num!/num ~; textResult - set Text(String value of (result)); catch (Number Format Exception ex) ? Joption Pane . Show Message Dialog (Frame, " Please Linter valid integers for Num & Num 2", " Number Format Erron", Joption Pane. EX. ROR MESSAGE,

Cortch (Arithmotle Exception of & JoptionPane. show Mossage Dialog (Frame, ex. getnessage 61 Avithmotic Error", Joption An : Error Hessage); });
Frame dot Mibble (true); E public void adienterformed Agricus es ? by number todage passe but text from a got Text (1);

Week 10 - Open Fodod Exercise -II & penionstrate Intertrovese communication & seadless 11 deadlock Synchronized void FoolBb) { String name = Thread. wherent Thread(). get Name(); System out pinth (name + " contered A Foo "); L'Throad Deep (1000); catch (Exception e) Egstem.out-pristln("A interrupted"): System. out. println (name + 16 trying to call B. bett)"). Synchranised void last (1 E System out-printle (" Inside A. last").

Synchronisted void bar (A a) { String name = Thread · curent Theread · get Name !.

System-out printly (ioune + ff entered B · bar "]. Thread . sleep (1000); Cartch Cixcoption e) E System - out . printly ("B enterrupted "); Systen. out Plintle l'nam + " tying to all A. letty Synchronical void last () System out plinter l'Inside class Deadlock implements Runnable = new All; = now 3(); Theread

Deadlock () Thread - current Thread . eset Name ("plain Thread "). t= new Thread (this, "Daving Thread"); void dead lockstart () t. starte); a . Fools); System out println (Back in main Thread n); public void runlis System. out. printle (" back in other thread "); public static void main (strong xx[]) { Deadlock Stout();

11 Interprocess communication Class B bodean value set = False; Synchronized int get 132 while (! value set) } try {waitl); } Contch (Interrupted Exception e) System.out. println/e-getMuseage(1); System out println ("Got: + 11); Value Let = false; notify(); notion is Synchronised void put (int n) { while (value Sot) } try ? realt() is Catch (Interhypted Exception e) { System Out println (" Int. excep caught") this in=n; value but = true; System. and -println[" Put: "1 + n);

class froducer implements Runnusl Theread t: producer (Qq) { this . 9 = 9; t = now Thread (this, "Producer"); public void or run () { int i=0; while (true) 9. patli++); class consumer Emplement Runnable Thread t; Consumer (& 9) ? this . 9 = 9 t = now Thread (this, "Consumer"); public void run() 2 nohib [true) { 9 · get();