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| **ChainOfResponsibility** | |
| **Line** | **Code** |
| **1**  **2**  **3**  **4**  **5**  **6**  **7**  **8**  **9**  **10**  **11**  **12**  **13**  **14**  **15**  **16**  **17**  **18**  **19**  **20**  **21**  **22**  **23**  **24**  **25**  **26**  **27**  **28**  **29**  **30**  **31**  **32**  **33**  **34**  **35**  **36**  **37**  **38**  **39**  **40**  **41**  **42**  **43**  **44**  **45**  **46**  **47**  **48**  **49**  **50**  **51** | **using** System;  **namespace** ChainOfResponsibility {  **interface** IHandler {  **string** HandleRequest(**int** data);  }  **class** ConcreateHandler : IHandler {  IHandler next;  **int** id;  **public int** Limit { get; set; }  **public** ConcreateHandler(**int** id, IHandler handler) {  **this**.id = id;  Limit = id \* 1000;  next = handler;  }  **public string** HandleRequest(**int** data) {  **if** (data < Limit)  **return** "Request for " + data + " handled at level " + id;  **else if** (next != **null**) **return** next.HandleRequest(data);  **else return** ("Request for " + data + " handled BY DEFAULT at level " + id);  }  }  **class** Program {  **static void** Main() {  IHandler start = **null**;  **for** (**int** i = 5; i > 0; i--) {//Forming the chain  Console.WriteLine("Handler " + i + " deals up to a limit of " + i \* 1000);  start = **new** ConcreateHandler(i, start);  }  //Test it  **int**[] a = { 50, 2000, 1500, 10000, 175, 4500 };  **foreach** (**int** i **in** a) Console.WriteLine(start.HandleRequest(i));  Console.ReadKey();  }  }  }  /\* --------------------- OUTPUT ----------------------  Handler 5 deals up to a limit of 5000  Handler 4 deals up to a limit of 4000  Handler 3 deals up to a limit of 3000  Handler 2 deals up to a limit of 2000  Handler 1 deals up to a limit of 1000  Request for 50 handled at level 1  Request for 2000 handled at level 3  Request for 1500 handled at level 2  Request for 10000 handled BY DEFAULT at level 5  Request for 175 handled at level 1  Request for 4500 handled at level 5  ------------------------------------------------------\*/ |