STUDENT FEEDBACK TRACKING SYSTEM

include 2 stdio. h> # include 2 Stallib. h> Hinclude & string. h> typedef struct node ? int student ID; Char course code[20]; int rating; char comments [200] Struct node & next; 3 Node; Nocle * add Feebback (Node * head, intid, const char & course, intrating, : Const char * comments); void search By Student (Node *head, Int student ID): vold searth By Course (Woole + head, const chart Course code): void search By Course (Node + head , const Char * Course (ode); Void display Reverse (Node & Lead): Node & chonelist (Node * head); void displaylist (node = nead); Wid freelist (rode * head): Int main () { Node * feedbacklist = NULL; feedbacklist = add feedback (Feedbacklist, 101. "(5101", 5, "Excellent teaching"); feedbacklist = addleedback (feedbacklist, 102, CS101, 4, Good but feedbacklist = addfeebdack (feedbacklist, 103, CS201, 3 Average); tould improve); Feedbacklist = and feedback (feedbacklist, 104, CS101, A, Toomuch thony);

feedbacklist = add feedback (feedbacklist, 105, PH301, 4 Intresting

tectures)

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Printf ("In - All feedbacks - ");
display 48t (FedbackList);
printf ("In -- Search by Student ID 102-In");
SearchBy Student (feedback List, 102).
printf ("In - Search by Course (5101 - In");
SearchBy Course (feedbacklist, 101");
 Printf ("In--Average for CSIOI -- In");
  averageBy Course (feedback, "CS101");
 Printf ("In- feedbacks in Revese Order-In");
 display Devene (feedback List);
 Printf ("Ih -- Cloning Feedback List -- In"))
 Node + clone = clonelist (feedbacklist).
 displaylist (tlone).
 Freelist (FeedbackList):
 Free List (clone);
  return 0:
11 functions
Node * adol feebback (Node * head, intid, const chart
                                    Course, intracting, const char.
                                                   Comments)
  Node * newhode = (Node+) malloc (size of (Node))!
 of (InewNode) [
     points ("Memory allocation failed In");
    return head;
  hew Node -> Student ID= Fd;
  Stropy (NewNode -> Lowre Code, course):
  hew node-rating = rating;
```

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Strapy (neoNode - comments comments):
 newNode mext = NULL.
 Pf (I head) return neurode > 11 first node
 Node + temp = head;
 while (tempranext) temp = temp > next;
  temp next = newvode;
  tetrom head:
 Void display list (Node * head) ?
   Node # temp = head;
    white (temp) {
     Printf ("StudentlD: Y.d 1 course . Y.s | Rating: Yd | Comment:
                                             Y.SIn"
                           temp->StudentID, temp->courieCode, tempo
                           rating, tempo comments);
     temp = temp next;
3 3
 Vold search By Student ( Node * head, Pht student D) ?
  Node #femp = head;
  ent found =0;
  while (temp) &
   · If (temp student (D = = student 1D) s
     pantf ("Sound: 1.d, 1.s, Rating: 1.d, comment: 1.s/n")
                temp > studentID, temp > course code, temp = rating,
                      temp -> comments);
 temp stemp=next;

If [!found) printf ("No teedback found for student !d"n!
                                            Student ID);
```

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Il search feedback by Course Gode
 Void search By Course ( Node + head, const. char + course code) {
  Node + temp = head;
  Int found = 0;
  while (temp) [
   if (stremp(temp= counecode, coursecode) == 0){
     printf ("found: Student Y.d, Rotting: Y.d, comment" Y.Slo",
              temp-student10, temp-rating, temp-scomments);
    found = 1;
   temp=temp=next;
  If (! found) print ("No feedback found for course 1.s In "coursecods)
 3
Il Calculate average rating for a course
void overage by Course (mode *head, const char *course code) {
Node #temp = head;
Put count = 0, Sun=0;
while (temp) {
    if (stromp (temps courrelode courrelode) ==0)5
    Sum + temp - vating.
    count ++;
  ·temp=temp + next;
 of (count = 20)
  prints ("No feedback for course! str", coursecode):
    printf (Average rating for 1.5 = % 2fln"), come code.
                                           (float) sumpount).
```

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11 Display 18st in revese Order (recussive)
void thisplay Reverse ( node * head) (
 if (!head) return;
 display Reverse (head + next):
 Printf ("Student ID: Yd I course: Ys 1 Roting: Y.d I comment: Yshin
          head -Student 1D, head - Courre Code head - rating.
                         head - lamments):
  3
 11 Clone the entire feedback list
 Node & chone List (Node * head) {
 of ('head) retworn NULL.
 Node & Clonettead = NOLL, * clone Tail = NULL;
 Node ptemp = head;
 While (temp) {
   Node *newNocle-(Nocle*) malloc (5/2006 (Nocle));
   *neuNode = # temp
   newhode -) rext = NULL;
   if (! chnettead) {
    CloneHead = clone tail - New Node; 3
   eue S
     clone the ) Next = new Nocle;
     clone Tail = newhode;
   temp=temp=next;
  tetur clondlead;
 3
```

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World FreeList (Node Head)

* Node Hamp:

tistile (head)!

timp = head

head = head = next

free(temp);
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