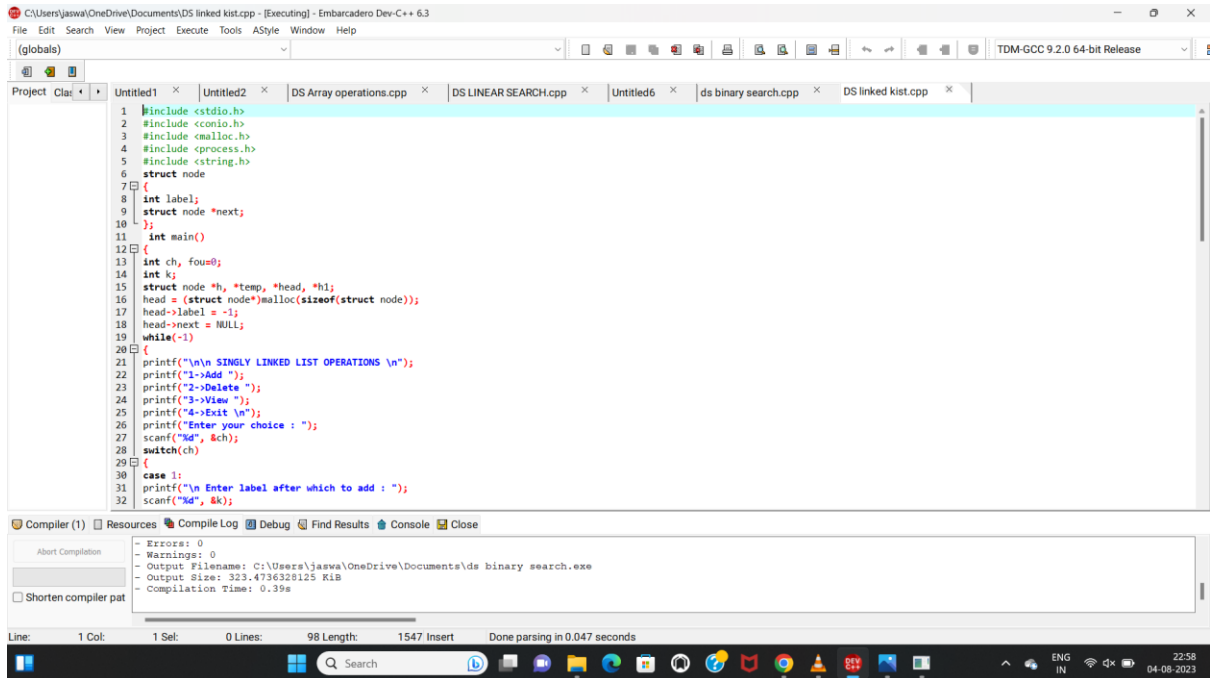
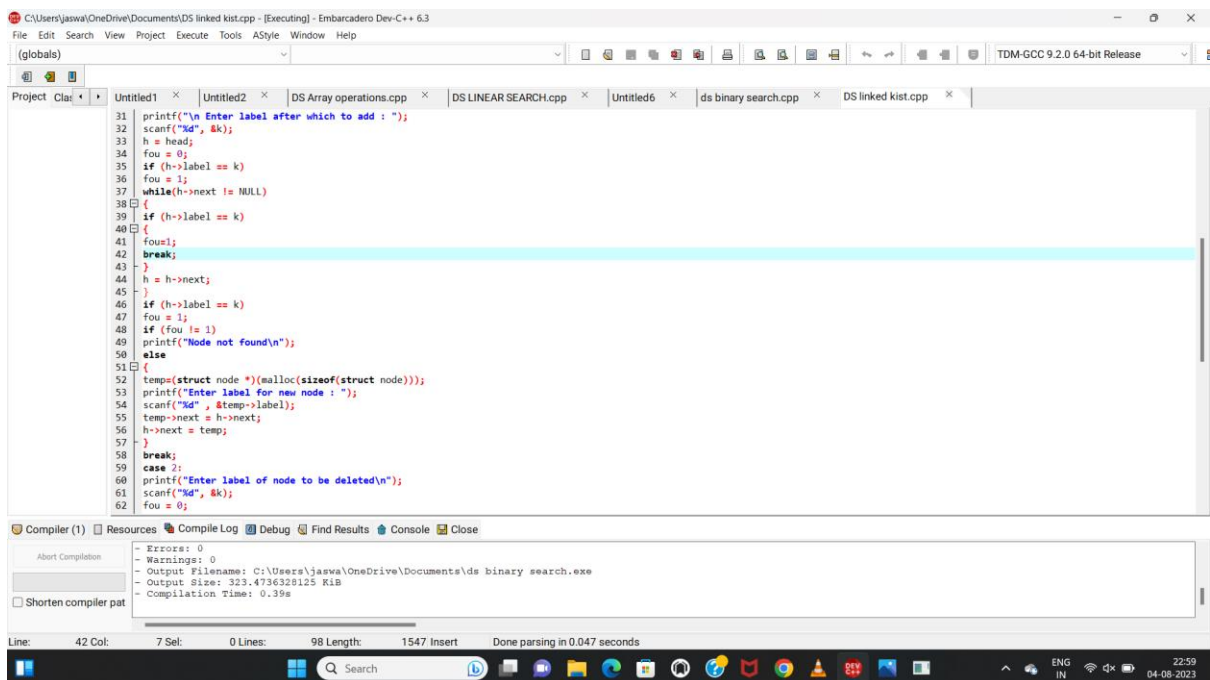


DS LINKED LIST



```
1 #include <stdio.h>
2 #include <conio.h>
3 #include <malloc.h>
4 #include <process.h>
5 #include <string.h>
6 struct node
7 {
8     int label;
9     struct node *next;
10 };
11
12 int main()
13 {
14     int ch, fou=0;
15     int k;
16     struct node *h, *temp, *head, *hi;
17     head = (struct node*)malloc(sizeof(struct node));
18     head->label = -1;
19     head->next = NULL;
20     while(-1)
21     {
22         printf("\n\n SINGLY LINKED LIST OPERATIONS \n\n");
23         printf("1->Add ");
24         printf("2->Delete ");
25         printf("3->View ");
26         printf("4->Exit \n");
27         printf("Enter your choice : ");
28         scanf("%d", &ch);
29         switch(ch)
30         {
31             case 1:
32                 printf("\n Enter Label after which to add : ");
33                 scanf("%d", &k);
```



```
31 printf("\n Enter label after which to add : ");
32 scanf("%d", &k);
33 h = head;
34 fou = 0;
35 if (h->label == k)
36     fou = 1;
37 while(h->next != NULL)
38 {
39     if (h->label == k)
40     {
41         fou=1;
42         break;
43     }
44     h = h->next;
45 }
46 if (h->label == k)
47     fou = 1;
48 if (fou != 1)
49     printf("Node not found\n");
50 else
51 {
52     temp=(struct node *) (malloc(sizeof(struct node)));
53     printf("Enter label for new node : ");
54     scanf("%d", &temp->label);
55     temp->next = h->next;
56     h->next = temp;
57 }
58 break;
59 case 2:
60     printf("Enter label of node to be deleted\n");
61     scanf("%d", &k);
62     fou = 0;
```

C:\Users\jaswa\OneDrive\Documents\DS linked kist.cpp - [Executing] - Embarcadero Dev-C++ 6.3

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

TDM-GCC 9.2.0 64-bit Release

Project Claz

Untitled1 x Untitled2 x DS Array operations.cpp x DS LINEAR SEARCH.cpp x Untitled6 x ds binary search.cpp x DS linked kist.cpp x

```
61 scanf("%d", &k);
62 fou = 0;
63 h = h1 = head;
64 while (h->next != NULL)
65 {
66     h = h->next;
67     if (h->label == k)
68     {
69         fou = 1;
70         break;
71     }
72 }
73 if (fou == 0)
74     printf("Sorry Node not found\n");
75 else
76 {
77     while (h1->next != h)
78         h1 = h1->next;
79     h1->next = h->next;
80     free(h);
81     printf("Node deleted successfully \n");
82 }
83 break;
84 case 3:
85     printf("\n\n HEAD -> ");
86     h = head;
87     while (h->next != NULL)
88     {
89         h = h->next;
90         printf("%d -> ", h->label);
91     }
92     printf("NULL");
```

Compiler (1) Resources Compile Log Debug Find Results Console Close

Abort Compilation

Shorten compiler pat

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\ds binary search.exe
- Output Size: 323.4736328125 KiB
- Compilation Time: 0.39s

Line: 42 Col: 7 Sel: 0 Lines: 98 Length: 1547 Insert Done parsing in 0.047 seconds

22:59 04-08-2023

C:\Users\jaswa\OneDrive\Documents\DS linked kist.cpp - [Executing] - Embarcadero Dev-C++ 6.3

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

TDM-GCC 9.2.0 64-bit Release

Project Claz

Untitled1 x Untitled2 x DS Array operations.cpp x DS LINEAR SEARCH.cpp x Untitled6 x ds binary search.cpp x DS linked kist.cpp x

```
67 if (h->label == k)
68 {
69     fou = 1;
70     break;
71 }
72 }
73 if (fou == 0)
74     printf("Sorry Node not found\n");
75 else
76 {
77     while (h1->next != h)
78         h1 = h1->next;
79     h1->next = h->next;
80     free(h);
81     printf("Node deleted successfully \n");
82 }
83 break;
84 case 3:
85     printf("\n\n HEAD -> ");
86     h = head;
87     while (h->next != NULL)
88     {
89         h = h->next;
90         printf("%d -> ", h->label);
91     }
92     printf("NULL");
93     break;
94 case 4:
95     exit(0);
96 }
97 }
98 }
```

Compiler (1) Resources Compile Log Debug Find Results Console Close

Abort Compilation

Shorten compiler pat

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\jaswa\OneDrive\Documents\ds binary search.exe
- Output Size: 323.4736328125 KiB
- Compilation Time: 0.39s

Line: 81 Col: 40 Sel: 0 Lines: 98 Length: 1547 Insert Done parsing in 0.047 seconds

22:59 04-08-2023

```
C:\Users\jaswa\OneDrive\Documents\DS linked list.exe
Enter label after which to add : -1
Enter label for new node : 23

SINGLY LINKED LIST OPERATIONS
1->Add 2->Delete 3->View 4->Exit
Enter your choice : 1

Enter label after which to add : 34
Node not found

SINGLY LINKED LIST OPERATIONS
1->Add 2->Delete 3->View 4->Exit
Enter your choice : 1

Enter label after which to add : -1
Enter label for new node : 45

SINGLY LINKED LIST OPERATIONS
1->Add 2->Delete 3->View 4->Exit
Enter your choice : 3

HEAD -> 45 -> 23 -> NULL

SINGLY LINKED LIST OPERATIONS
1->Add 2->Delete 3->View 4->Exit
Enter your choice :
```