C:\Users\Dell\Documents\hashing.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

[*] tree.cpp hashing.cpp

```
1   #include <stdio.h>
2   #include<stdlib.h>
3   #define TABLE_SIZE 10
4
5   int h[TABLE_SIZE]={NULL};
6
7   void insert()
8   {
9
10   int key,index,i,flag=0,hkey;
11   printf("\nenter a value to insert into hash table\n");
12   scanf("%d",&key);
13   hkey=key%TABLE_SIZE;
14   for(i=0;i<TABLE_SIZE;i++)
15      {
16
17      index=(hkey+i)%TABLE_SIZE;
18
19      if(h[index] == NULL)
20      {
21         h[index]=key;
22          break;
23      }
24
25      }
26
27      if(i == TABLE_SIZE)
28
29      printf("\nelement cannot be inserted\n");
30  }
31  void search()
32  {
33
34   int key,index,i,flag=0,hkey;
35   printf("\nenter search element\n");
36   scanf("%d",&key);
37   hkey=key%TABLE_SIZE;
```

Line: 83 Col: 2 Sel: 0 Lines: 83 Length: 1481 Insert Done parsing in 0 seconds

ENG IN 17:53 28-09-2022 28

C:\Users\Dell\Documents\hashing.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

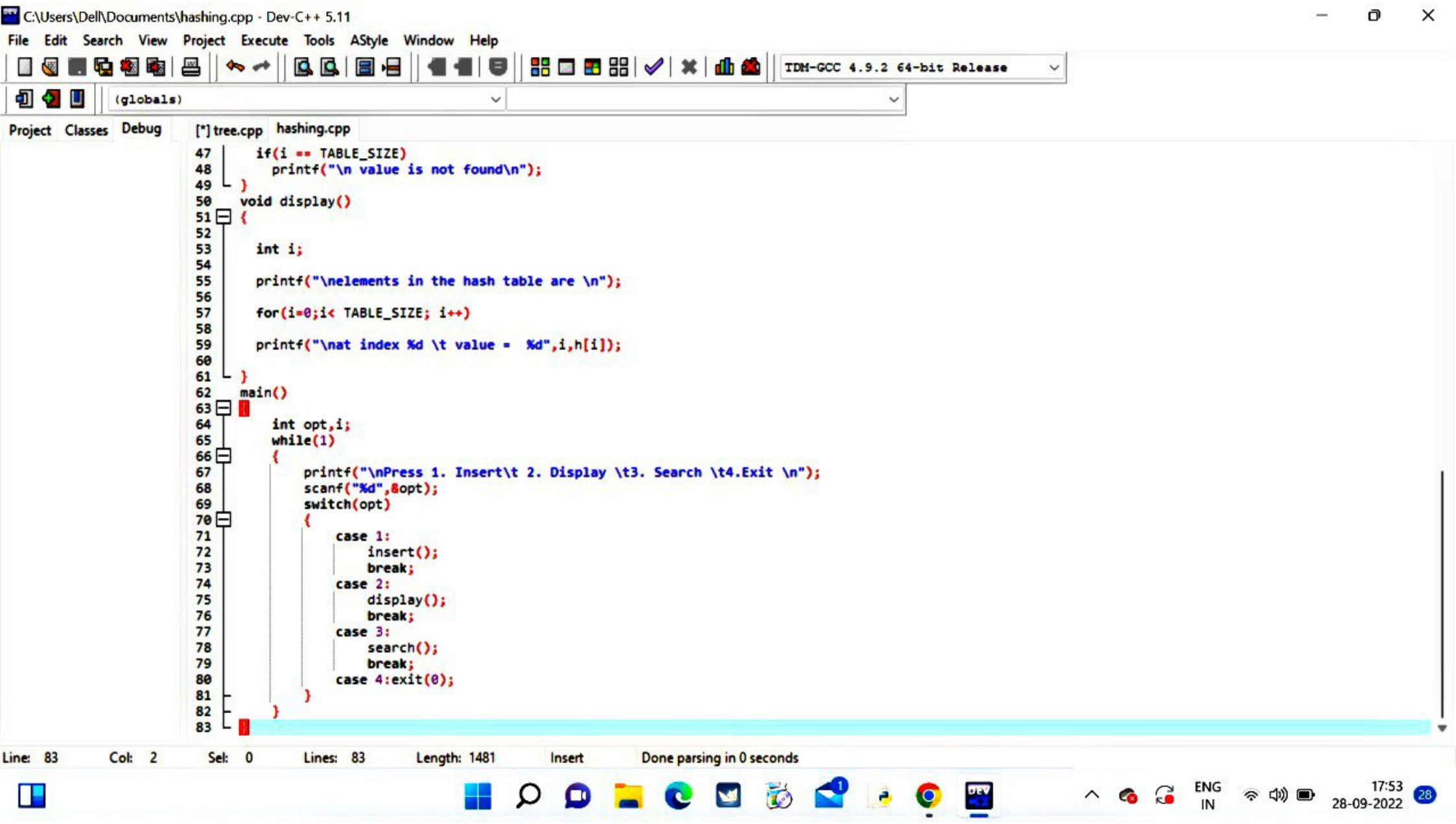
Project Classes Debug

[*] tree.cpp hashing.cpp

```
28
29          printf("\nelement cannot be inserted\n");
30      }
31      void search()
32      {
33
34       int key,index,i,flag=0,hkey;
35       printf("\nenter search element\n");
36       scanf("%d",&key);
37       hkey=key%TABLE_SIZE;
38       for(i=0;i<TABLE_SIZE; i++)
39       {
40          index=(hkey+i)%TABLE_SIZE;
41          if(h[index]==key)
42          {
43            printf("value is found at index %d",index);
44            break;
45          }
46       }
47       if(i == TABLE_SIZE)
48         printf("\n value is not found\n");
49      }
50      void display()
51      {
52
53        int i;
54
55        printf("\nelements in the hash table are \n");
56
57        for(i=0;i< TABLE_SIZE; i++)
58
59        printf("\nat index %d \t value =  %d",i,h[i]);
60
61      }
62      main()
63      {
64          int opt,i;
```

Line: 83 Col: 2 Sel: 0 Lines: 83 Length: 1481 Insert Done parsing in 0 seconds

ENG IN 17:53 28-09-2022 28


C:\Users\Dell\Documents\hashing.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
[*] tree.cpp
hashing.cpp
47 if(i == TABLE_SIZE)
48 printf("\n value is not found\n");
49 }
50 void display()
51 {
52
53 int i;
54
55 printf("\nelements in the hash table are \n");
56
57 for(i=0;i< TABLE_SIZE; i++)
58
59 printf("\nat index %d \t value = %d",i,h[i]);
60
61 }
62 main()
63 {
64 int opt,i;
65 while(1)
66 {
67 printf("\nPress 1. Insert\t 2. Display \t3. Search \t4.Exit \n");
68 scanf("%d",&opt);
69 switch(opt)
70 {
71 case 1:
72 insert();
73 break;
74 case 2:
75 display();
76 break;
77 case 3:
78 search();
79 break;
80 case 4:exit(0);
81 }
82 }
83 }
Line: 83 Col: 2 Sel: 0 Lines: 83 Length: 1481 Insert Done parsing in 0 seconds
ENG
IN
17:53
28-09-2022
28

C:\Users\Dell\Documents\hashing.exe

```
1

enter a value to insert into hash table
3

Press 1. Insert  2. Display     3. Search       4.Exit
3

enter search element
4

 value is not found

Press 1. Insert  2. Display     3. Search       4.Exit
2

elements in the hash table are

at index 0       value =  0
at index 1       value =  0
at index 2       value =  0
at index 3       value =  3
at index 4       value =  0
at index 5       value =  0
at index 6       value =  0
at index 7       value =  0
at index 8       value =  0
at index 9       value =  0
Press 1. Insert  2. Display     3. Search       4.Exit
```