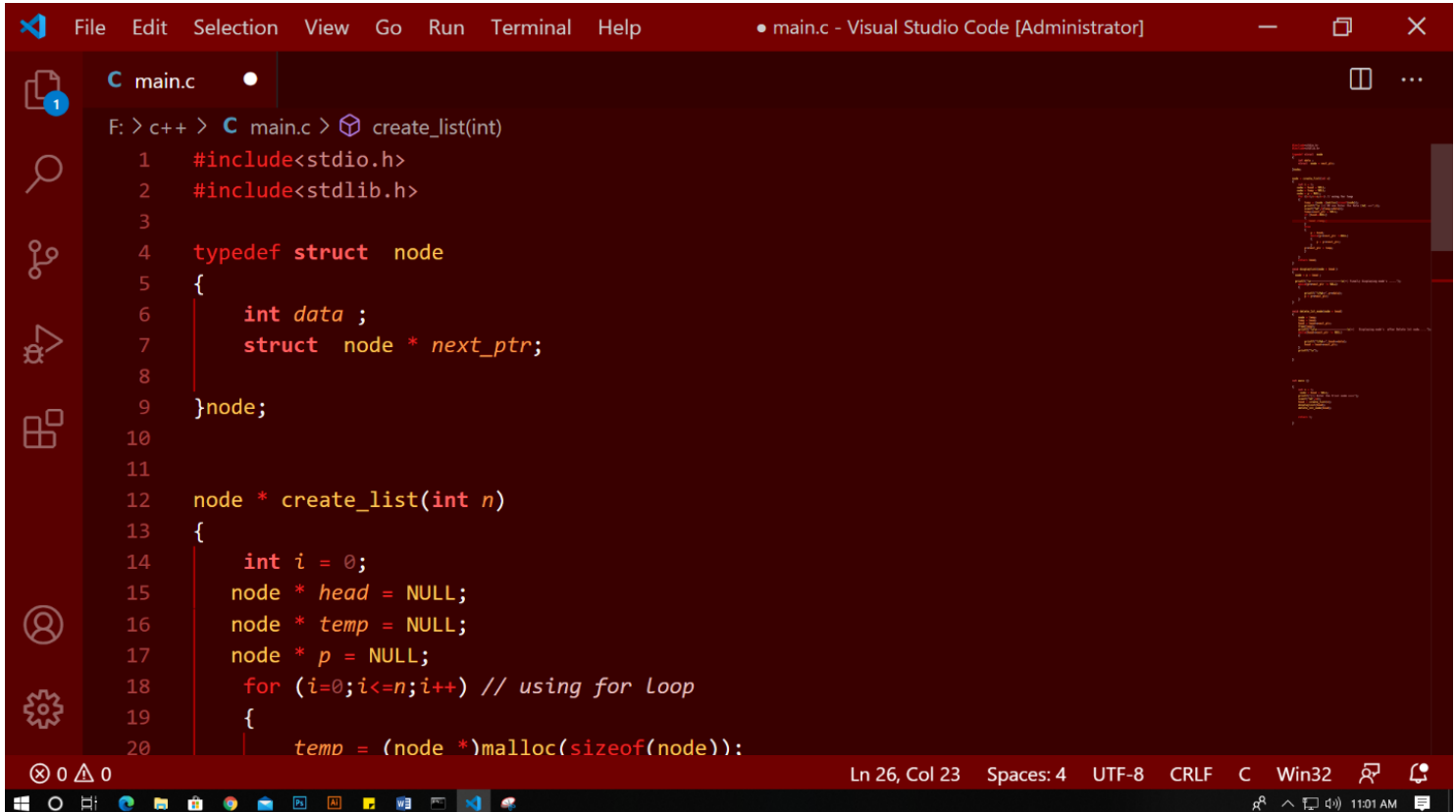


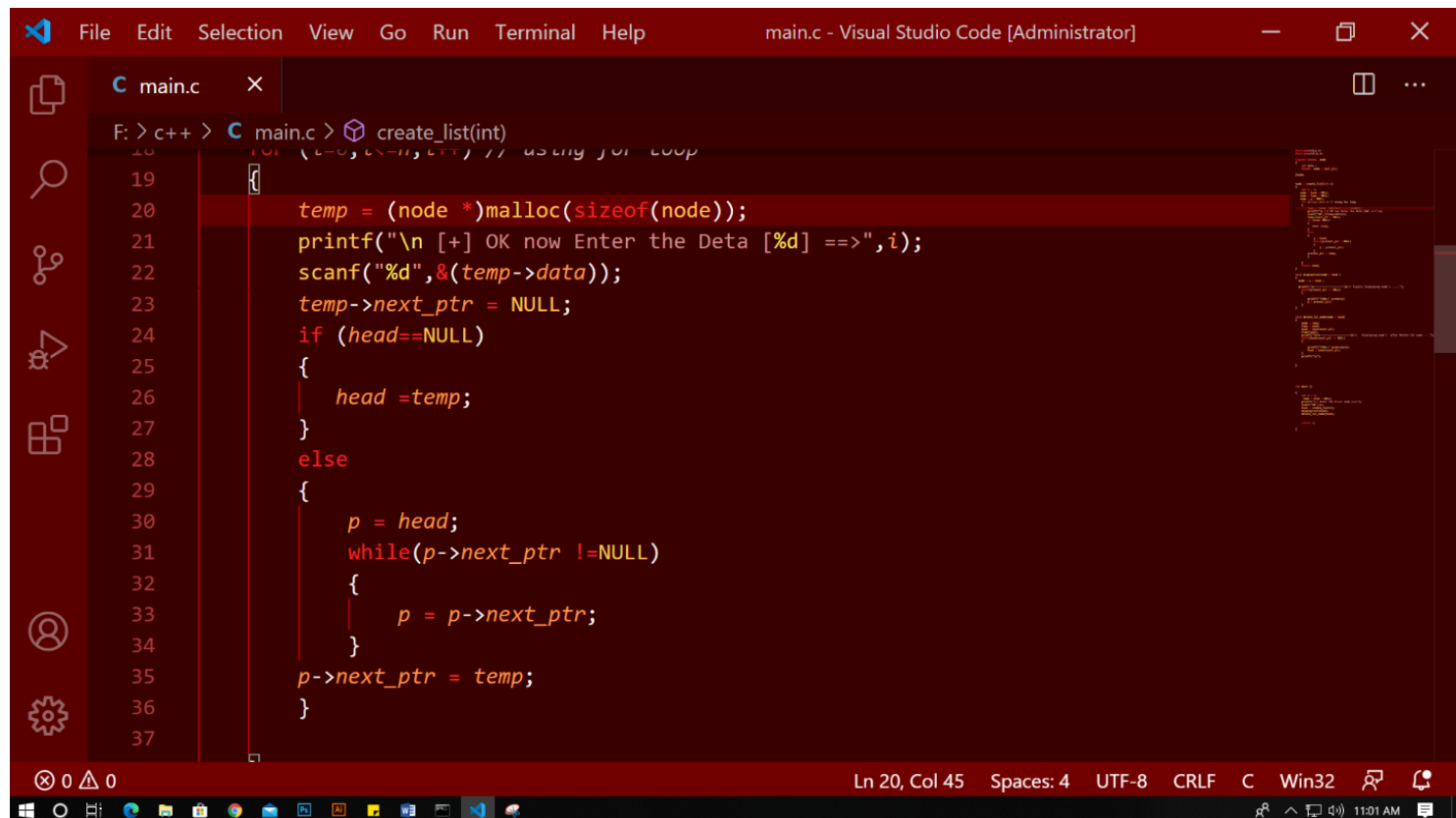
Create And Delete From Linklist

This is code of how can create a linklist and delete 1st data from link list



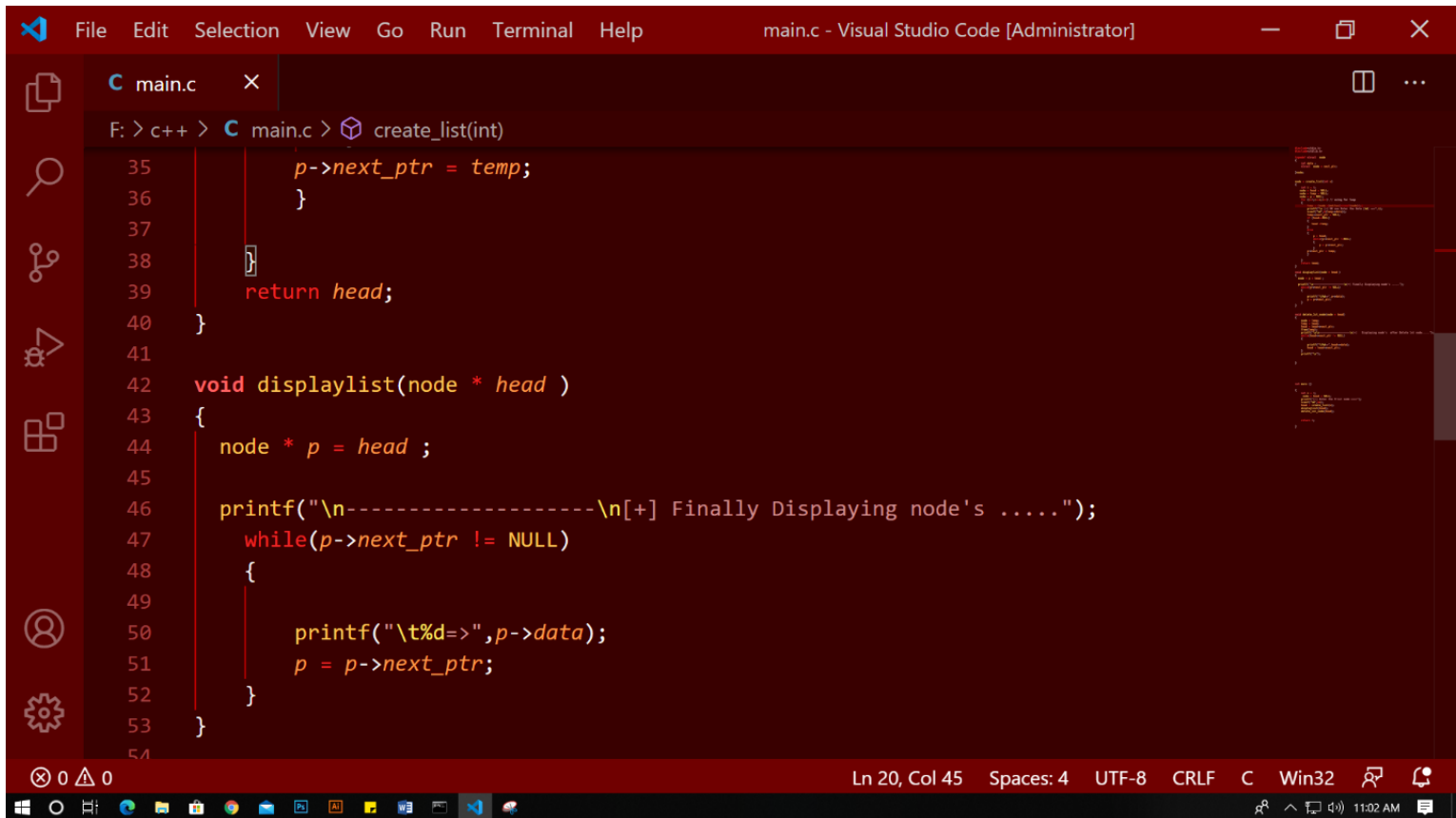
The screenshot shows the Visual Studio Code editor with a C file named 'main.c'. The code defines a 'node' structure with an integer 'data' and a pointer to the next node 'next_ptr'. It then defines a function 'create_list(int n)' which initializes 'head', 'temp', and 'p' pointers to NULL. A 'for' loop is used to iterate from 0 to n, and inside the loop, a new node is allocated using 'malloc'.

```
F: > c++ > C main.c > create_list(int)
1  #include<stdio.h>
2  #include<stdlib.h>
3
4  typedef struct node
5  {
6      int data ;
7      struct node * next_ptr;
8  }node;
9
10
11
12  node * create_list(int n)
13  {
14      int i = 0;
15      node * head = NULL;
16      node * temp = NULL;
17      node * p = NULL;
18      for (i=0;i<=n;i++) // using for loop
19      {
20          temp = (node *)malloc(sizeof(node));
```



The screenshot shows the continuation of the 'create_list' function. It prompts the user to enter data for each node using 'printf' and 'scanf'. It then sets the 'next_ptr' of the current node to NULL. If 'head' is NULL, it sets 'head' to 'temp'. Otherwise, it traverses the list using 'p' until it reaches the end, then sets 'p->next_ptr' to 'temp'.

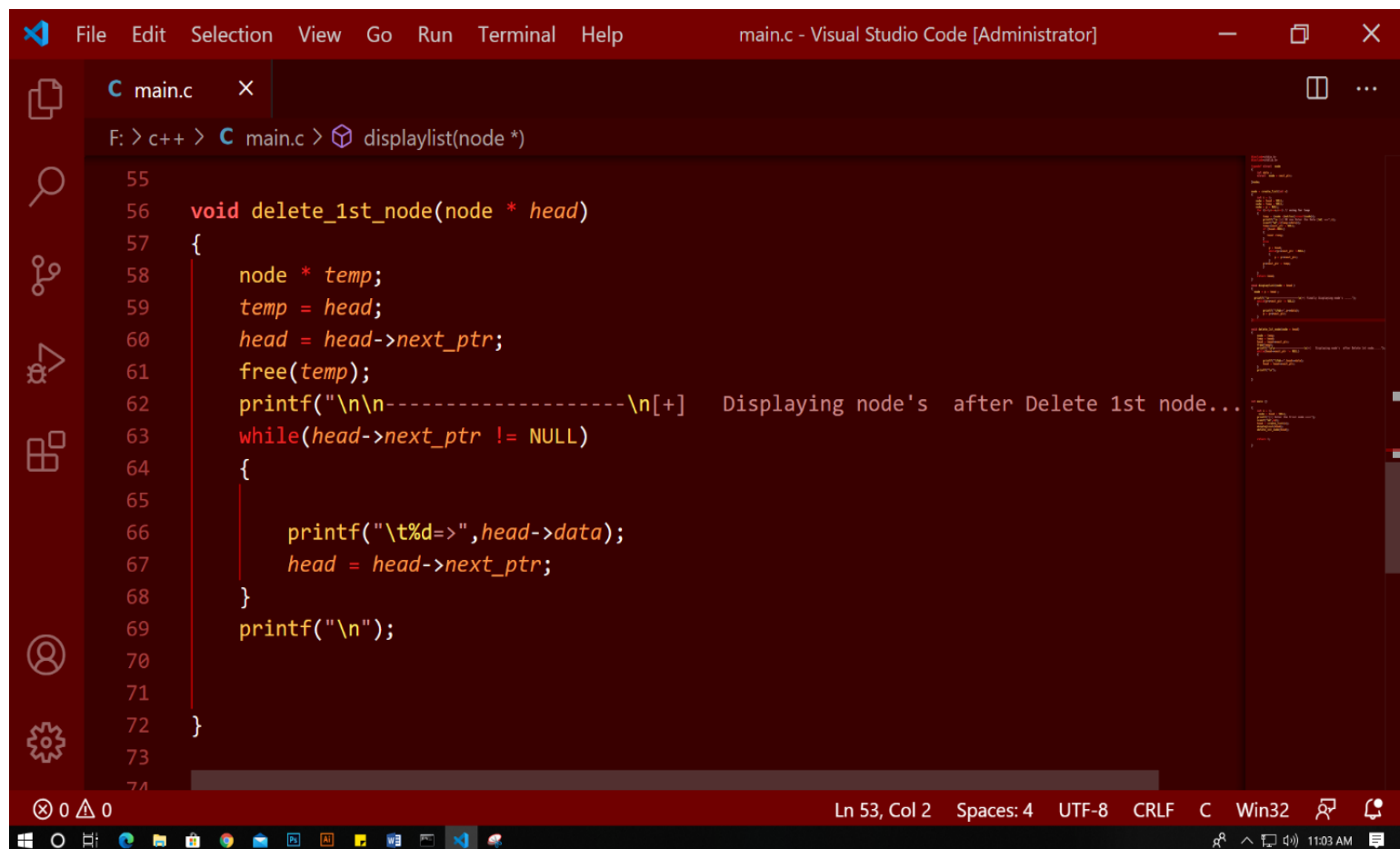
```
20      temp = (node *)malloc(sizeof(node));
21      printf("\n [+] OK now Enter the Deta [%d] ==>",i);
22      scanf("%d",&(temp->data));
23      temp->next_ptr = NULL;
24      if (head==NULL)
25      {
26          head =temp;
27      }
28      else
29      {
30          p = head;
31          while(p->next_ptr !=NULL)
32          {
33              p = p->next_ptr;
34          }
35          p->next_ptr = temp;
36      }
37
```



```
File Edit Selection View Go Run Terminal Help main.c - Visual Studio Code [Administrator]

C main.c x
F: > c++ > C main.c > create_list(int)
35     p->next_ptr = temp;
36 }
37
38
39     return head;
40 }
41
42 void displaylist(node * head )
43 {
44     node * p = head ;
45
46     printf("\n-----\n[+] Finally Displaying node's .....");
47     while(p->next_ptr != NULL)
48     {
49
50         printf("\t%d=>",p->data);
51         p = p->next_ptr;
52     }
53 }
54
```

Ln 20, Col 45 Spaces: 4 UTF-8 CRLF C Win32 11:02 AM



```
File Edit Selection View Go Run Terminal Help main.c - Visual Studio Code [Administrator]

C main.c x
F: > c++ > C main.c > displaylist(node *)
55
56 void delete_1st_node(node * head)
57 {
58     node * temp;
59     temp = head;
60     head = head->next_ptr;
61     free(temp);
62     printf("\n\n-----\n[+] Displaying node's after Delete 1st node...");
63     while(head->next_ptr != NULL)
64     {
65
66         printf("\t%d=>",head->data);
67         head = head->next_ptr;
68     }
69     printf("\n");
70
71
72 }
73
74
```

Ln 53, Col 2 Spaces: 4 UTF-8 CRLF C Win32 11:03 AM

```
File Edit Selection View Go Run Terminal Help main.c - Visual Studio Code [Administrator]
C main.c x
F: > c++ > C main.c > delete_1st_node(node *)
78
79 int main ()
80
81 {
82     int n = 0;
83     node * head = NULL;
84     printf("[+] Enter the Frist node ==>");
85     scanf("%d",&n);
86     head = create_list(n);
87     displaylist(head);
88     delete_1st_node(head);
89
90
91     return 0;
92
93 }
```

Ln 72, Col 2 Spaces: 4 UTF-8 CRLF C Win32 11:03 AM

Now Code is Finished ..

After Compiling code ...

Result is.....

```
$"Rafsan@Coder>>"ls
a.exe  main.c

$"Rafsan@Coder>>" a.exe
[+] Enter the Frist node ==>5

[+] OK now Enter the Deta [0] ==>1
[+] OK now Enter the Deta [1] ==>2
[+] OK now Enter the Deta [2] ==>3
[+] OK now Enter the Deta [3] ==>4
[+] OK now Enter the Deta [4] ==>5
[+] OK now Enter the Deta [5] ==>6

-----
[+] Finally Displaying node's ..... 1=> 2=> 3=> 4=> 5=>

-----
[+] Displaying node's after Delete 1st node..... 2=> 3=> 4=> 5=>

$"Rafsan@Coder>>"
```