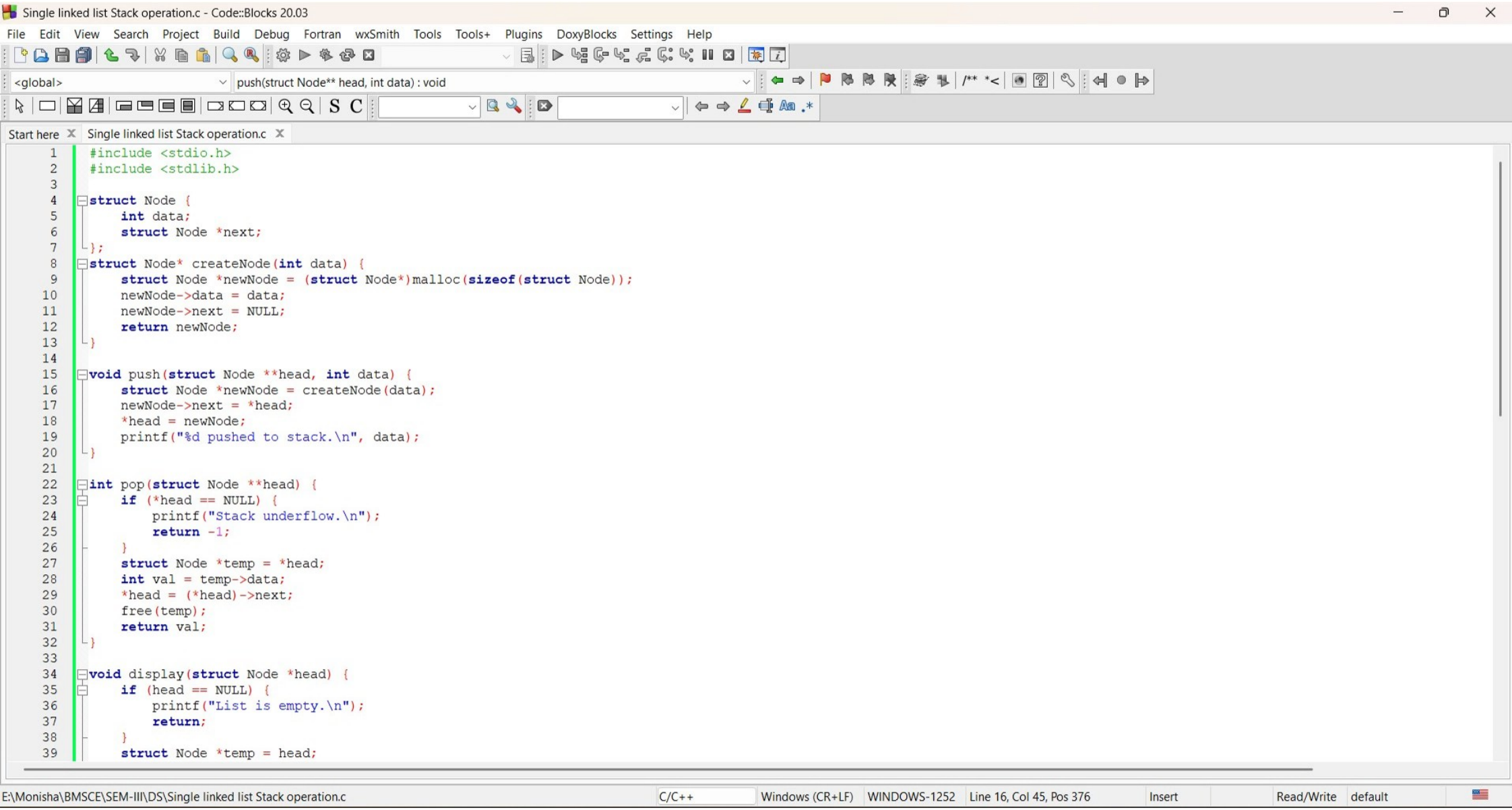
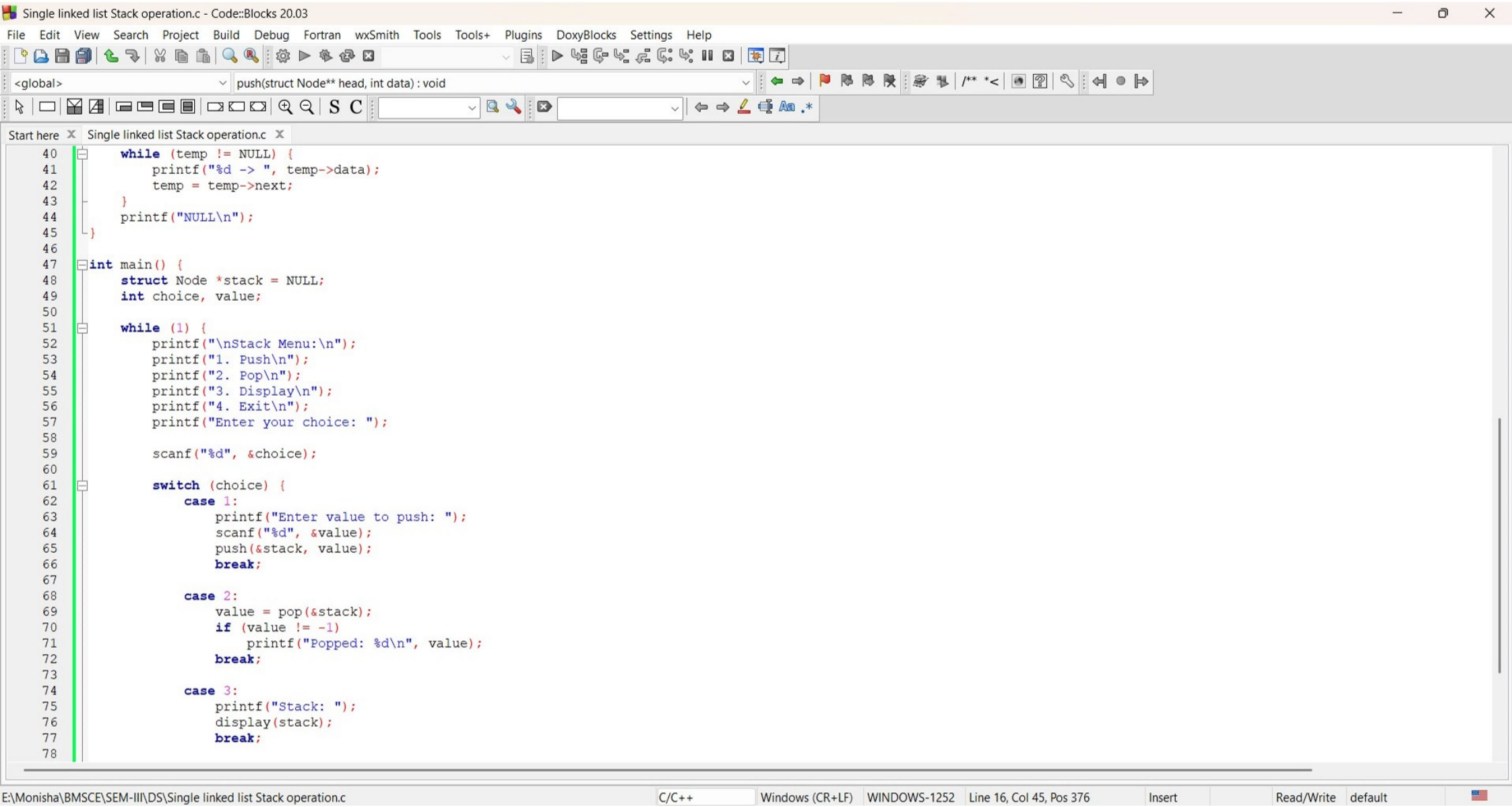

Single linked list Stack operation.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
push(struct Node** head, int data) : void
Start here
Single linked list Stack operation.c
#include <stdio.h>
#include <stdlib.h>
struct Node {
int data;
struct Node *next;
};
struct Node* createNode(int data) {
struct Node *newNode = (struct Node*)malloc(sizeof(struct Node));
newNode->data = data;
newNode->next = NULL;
return newNode;
}
void push(struct Node **head, int data) {
struct Node *newNode = createNode(data);
newNode->next = *head;
*head = newNode;
printf("%d pushed to stack.\n", data);
}
int pop(struct Node **head) {
if (*head == NULL) {
printf("Stack underflow.\n");
return -1;
}
struct Node *temp = *head;
int val = temp->data;
*head = (*head)->next;
free(temp);
return val;
}
void display(struct Node *head) {
if (head == NULL) {
printf("List is empty.\n");
return;
}
struct Node *temp = head;
E:\Monisha\BMSCE\SEM-III\DS\Single linked list Stack operation.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 16, Col 45, Pos 376
Insert
Read/Write
default


Single linked list Stack operation.c - Code::Blocks 20.03
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<global>
push(struct Node** head, int data) : void
Start here
Single linked list Stack operation.c
40 while (temp != NULL) {
41 printf("%d -> ", temp->data);
42 temp = temp->next;
43 }
44 printf("NULL\n");
45 }
46
47 int main() {
48 struct Node *stack = NULL;
49 int choice, value;
50
51 while (1) {
52 printf("\nStack Menu:\n");
53 printf("1. Push\n");
54 printf("2. Pop\n");
55 printf("3. Display\n");
56 printf("4. Exit\n");
57 printf("Enter your choice: ");
58
59 scanf("%d", &choice);
60
61 switch (choice) {
62 case 1:
63 printf("Enter value to push: ");
64 scanf("%d", &value);
65 push(&stack, value);
66 break;
67
68 case 2:
69 value = pop(&stack);
70 if (value != -1)
71 printf("Popped: %d\n", value);
72 break;
73
74 case 3:
75 printf("Stack: ");
76 display(stack);
77 break;
78
E:\Monisha\BMSCE\SEM-III\DS\Single linked list Stack operation.c
C/C++
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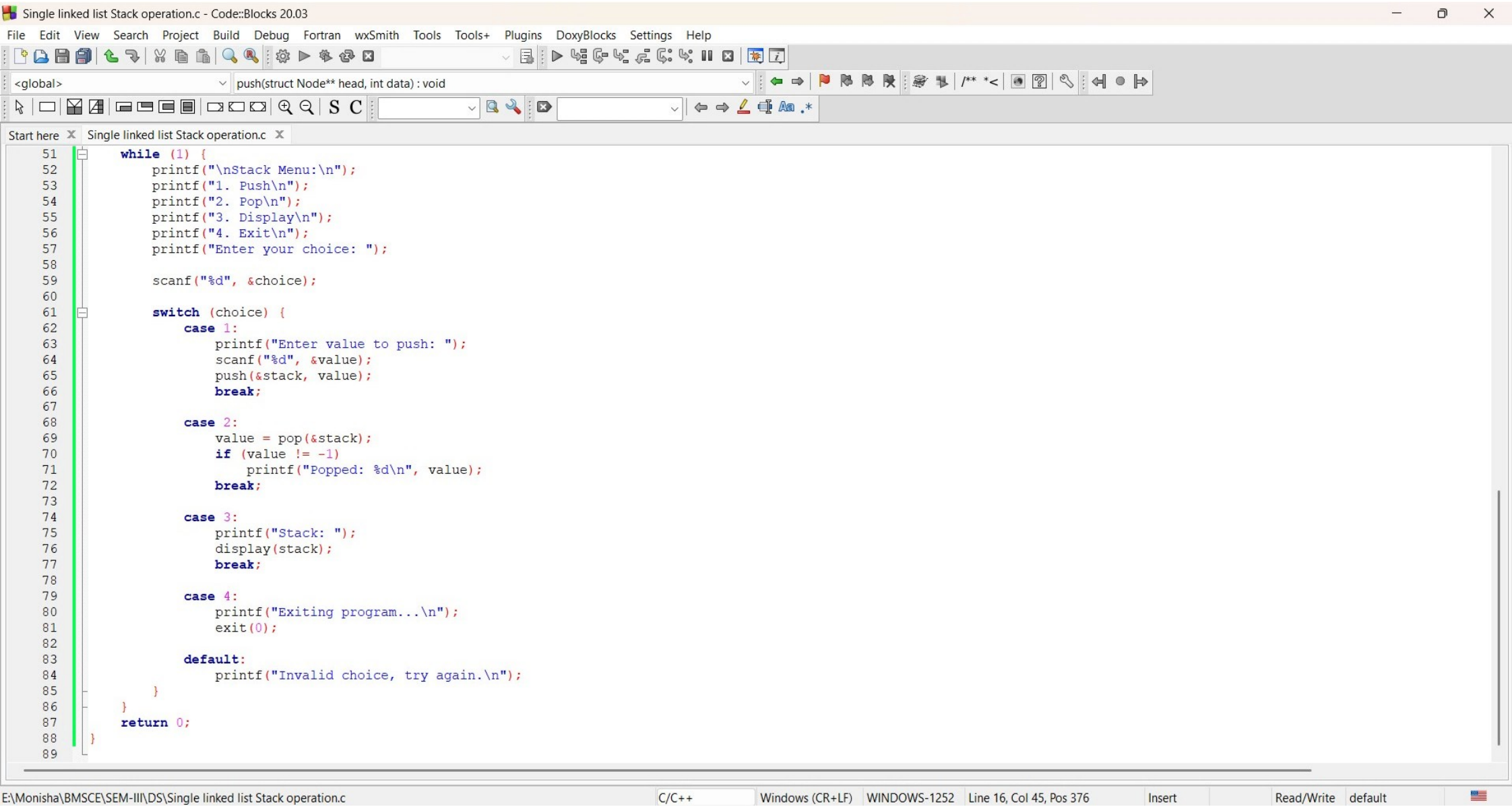
Line 16, Col 45, Pos 376
Insert
Read/Write
default


Single linked list Stack operation.c - Code::Blocks 20.03
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<global>
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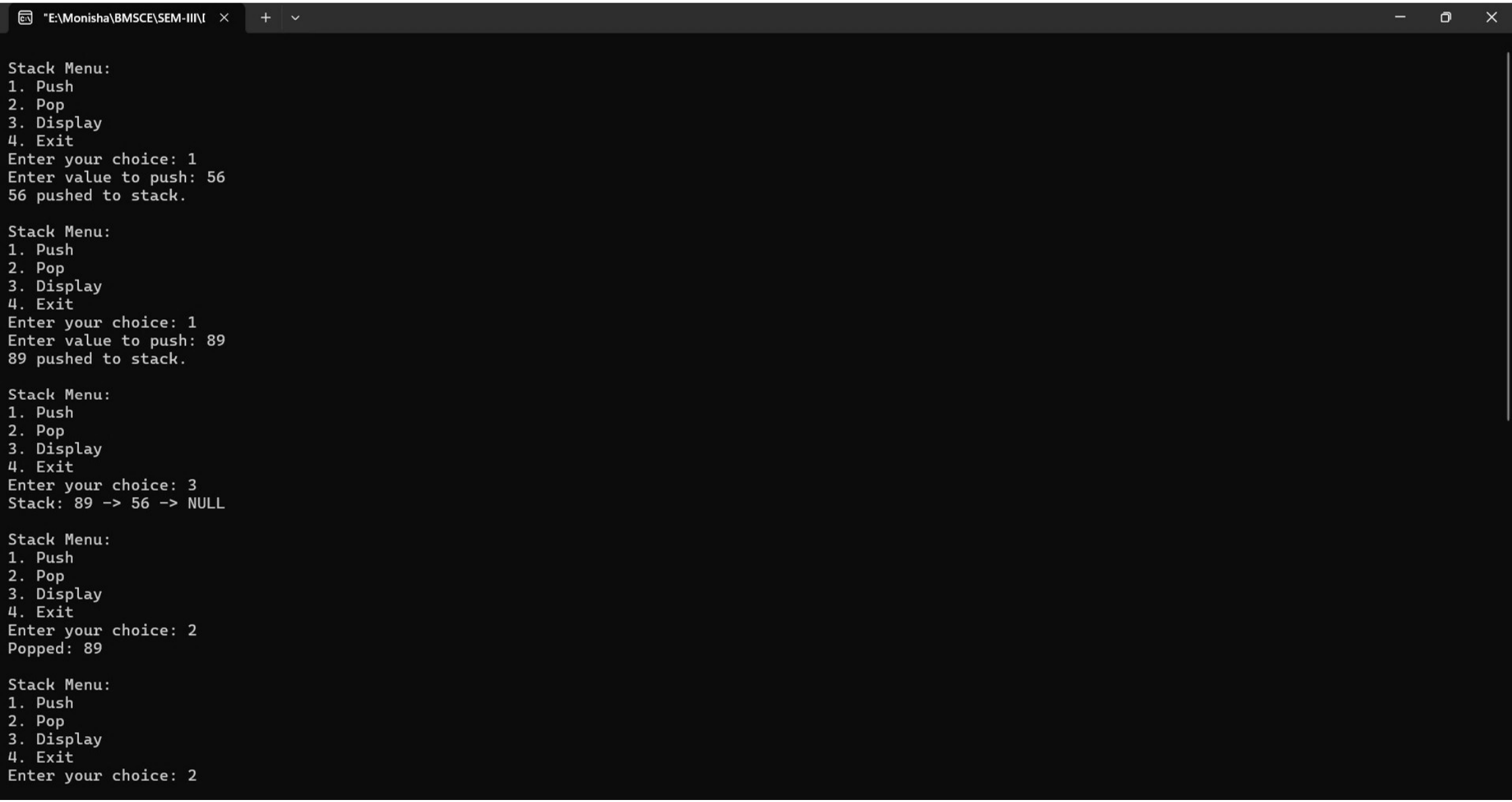
Start here
Single linked list Stack operation.c
51 while (1) {
52 printf("\nStack Menu:\n");
53 printf("1. Push\n");
54 printf("2. Pop\n");
55 printf("3. Display\n");
56 printf("4. Exit\n");
57 printf("Enter your choice: ");
58
59 scanf("%d", &choice);
60
61 switch (choice) {
62 case 1:
63 printf("Enter value to push: ");
64 scanf("%d", &value);
65 push(&stack, value);
66 break;
67
68 case 2:
69 value = pop(&stack);
70 if (value != -1)
71 printf("Popped: %d\n", value);
72 break;
73
74 case 3:
75 printf("Stack: ");
76 display(stack);
77 break;
78
79 case 4:
80 printf("Exiting program...\n");
81 exit(0);
82
83 default:
84 printf("Invalid choice, try again.\n");
85 }
86 }
87 return 0;
88 }
89
E:\Monisha\BMSCE\SEM-III\DS\Single linked list Stack operation.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 16, Col 45, Pos 376
Insert
Read/Write
default


"E:\Monisha\BMSCE\SEM-III\[
Stack Menu:
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 1
Enter value to push: 56
56 pushed to stack.
Stack Menu:
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 1
Enter value to push: 89
89 pushed to stack.
Stack Menu:
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 3
Stack: 89 -> 56 -> NULL
Stack Menu:
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 2
Popped: 89
Stack Menu:
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 2


"E:\Monisha\BMSCE\SEM-III\[
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 2
Popped: 89
Stack Menu:
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 2
Popped: 56
Stack Menu:
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 2
Stack underflow.
Stack Menu:
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 3
Stack: List is empty.
Stack Menu:
1. Push
2. Pop
3. Display
4. Exit
Enter your choice: 4
Exiting program...
Process returned 0 (0x0) execution time : 37.616 s
Press any key to continue.