C:\Users\sohan\Desktop\C Programs\Data Structures Lab\LP 1\push and pop.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

push and pop.cpp

```
1  #include<stdio.h>
2  #include<process.h>
3  #include<conio.h>
4  #define STACK_SIZE 5
5  int top=-1;
6  int s[10];
7  int item;
8  void push ()
9  {
10     if(top==STACK_SIZE-1){printf("stack overflow\n");
11     return;
12     }
13     top=top+1;
14     s[top]=item;
15 }
16 int pop()
17 { if(top==-1)return -1;
18 return s[top--];
19 }
20 void display()
21 { int i;
22 if(top==-1)
23 {printf(" Stack is empty \n");
24 return;
25 }
26 printf("contents of the stack\n");
27 for(i=top;i>=0;i--)
28 { printf("%d\n",s[i]);
29 }
30 }
31 int main()
32 {
33     int item_deleted;
34     int choice;
35     system("cls");
36 for(;;)
37     {
38         printf("\n 1:Push\n 2:Pop\n 3:Display\n 4:Exit\n");
```

Compiler Resources Compile Log Debug Find Results

Line: 11 Col: 12 Sel: 0 Lines: 61 Length: 1123 Insert Done parsing in 0.11 seconds

Type here to search

ENG 14:32 05-10-2020

C:\Users\sohan\Desktop\C Programs\Data Structures Lab\LP 1\push and pop.cpp - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

push and pop.cpp

```
25  }
26  printf("contents of the stack\n");
27  for(i=top;i>=0;i--)
28  { printf("%d\n",s[i]);
29  }
30  }
31  int main()
32  {
33      int item_deleted;
34      int choice;
35      system("cls");
36  for(;;)
37      {
38          printf("\n 1:Push\n 2:Pop\n 3:Display\n 4:Exit\n");
39          printf(" Enter the choice\n");
40          scanf("%d",&choice);
41          switch(choice)
42          {
43              case 1: printf("enter the item to be inserted \n");
44                      scanf("%d\n",&item);
45                      push();
46                      break;
47              case 2: item_deleted=pop(); (-1);
48                      if(item_deleted==-1)
49                      {printf("Stack is empty\n");
50                  }
51                      else
52                      printf("item deleted is %d\n",item_deleted);
53                      break;
54              case 3: display();
55                      break;
56              default: exit(0);
57          }
58      }
59      getch();
60  return 0;
61  }
```

Compiler Resources Compile Log Debug Find Results

Line: 11 Col: 12 Sel: 0 Lines: 61 Length: 1123 Insert Done parsing in 0.11 seconds

Type here to search

ENG 14:32 05-10-2020

C:\Users\sohan\Desktop\C Programs\Data Structures Lab\LP 1\push and pop.exe

```
 1:Push
 2:Pop
 3:Display
 4:Exit
 Enter the choice
1
enter the item to be inserted
12
1

 1:Push
 2:Pop
 3:Display
 4:Exit
 Enter the choice
enter the item to be inserted
12
1

 1:Push
 2:Pop
 3:Display
 4:Exit
 Enter the choice
enter the item to be inserted
15
1

 1:Push
 2:Pop
 3:Display
 4:Exit
 Enter the choice
enter the item to be inserted
43
1

 1:Push
 2:Pop
 3:Display
 4:Exit
 Enter the choice
enter the item to be inserted
32
1

 1:Push
 2:Pop
 3:Display
```

Type here to search

ENG 14:32 05-10-2020

C:\Users\sohan\Desktop\C Programs\Data Structures Lab\LP 1\push and pop.exe

```
 1:Push
 2:Pop
 3:Display
 4:Exit
 Enter the choice
enter the item to be inserted
2

2
stack overflow

 1:Push
 2:Pop
 3:Display
 4:Exit
 Enter the choice
item deleted is 32

 1:Push
 2:Pop
 3:Display
 4:Exit
 Enter the choice
3
contents of the stack
43
15
12
12

 1:Push
 2:Pop
 3:Display
 4:Exit
 Enter the choice
4

--------------------------------
Process exited after 170.3 seconds with return value 0
Press any key to continue . . .
```