

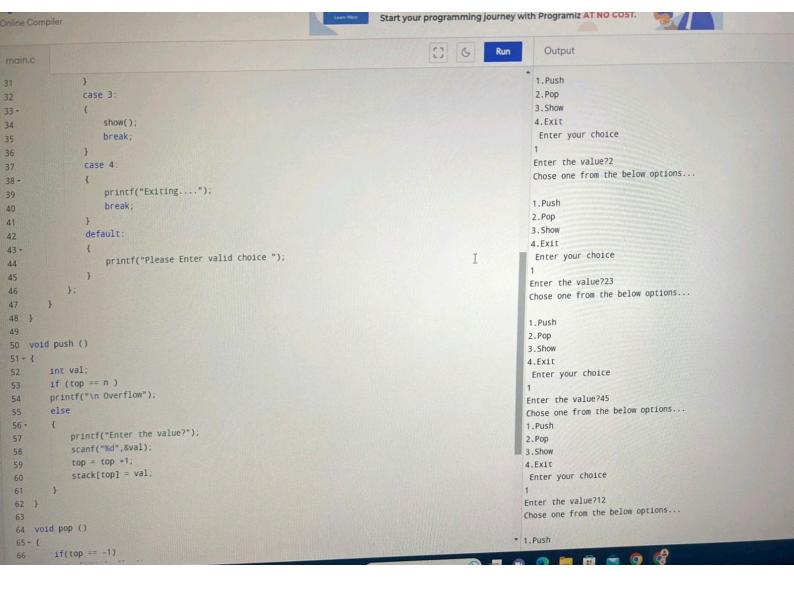


LOOKING TO LEARN PROGRAMMING?

Start your programming journey with Programiz AT NO COST.



```
53 G Run
                                                                                                           Output
                                                                                                        * /tmp/8hI3qnMY3Q.o
1 #include <stdio.h>
                                                                                                          Enter the number of elements in the stack 3
2 int stack[100],1,j,choice=0,n,top=-1;
                                                                                                          *******Stack operations using array*******
3 void push();
4 void pop();
                                                                                                          Chose one from the below options...
5 void show();
6 void main ()
                                                                                                         1.Push
                                                                                                         2.Pop
                                                                                                         3.Show
      printf("Enter the number of elements in the stack ");
                                                                                                         4.Exit
      scanf("%d",&n);
10
     printf("********Stack operations using array*******");
                                                                                                          Enter your choice
13 printf("\n-----
                                                                                                         Enter the value?2
     while(choice != 4)
                                                                                                         Chose one from the below options...
14
                                                                                                         1.Push
          printf("Chose one from the below options...\n");
           printf("\n1.Push\n2.Pop\n3.Show\n4.Exit");
                                                                                                         2.Pop
           printf("\n Enter your choice \n");
                                                                                                         3. Show
18
                                                                                                         4.Exit
19
           scanf("%d", &choice);
           switch(choice)
                                                                                                         Enter your choice
21 -
                                                                                                         Enter the value?23
22
               case 1:
                                                                                                         Chose one from the below options...
               {
24
                   push();
                   break;
                                                                                                         1. Push
                                                                                                         2.Pop
27
28 -
               case 2:
                                                                                                         3.Show
                                                                                                         4.Exit
29
                   pop();
                                                                                                         Enter your choice
                   break;
31
                                                                                                         Enter the value?45
                case 3:
                                                                                                         Chose one from the below options...
                                                                                                         1. Push
                   show();
                                                                                                         2.Pop
                   break;
                                                                                                         3. Show
                                                                                                       4.Exit
```



```
gramiz
nline Compiler
                                                                                    [] G Run
                                                                                                          Output
main.c
                                                                                                        1.Push
          };
16
                                                                                                         2.Pop
17
                                                                                                        3.Show
18 }
                                                                                                        4.Exit
49
                                                                                                        Enter your choice
50 void push ()
51 - {
                                                                                                        Enter the value?2
52
      int val;
                                                                                                        Chose one from the below options...
53
     if (top == n )
   printf("\n Overflow");
54
                                                                                                        1.Push
55 else
56 - {
                                                                                                        2.Pop
                                                                                                        3.Show
    printf("Enter the value?");
scanf("%d",&val);
57
                                                                                                        4.Exit
58
                                                                                                        Enter your choice
           top = top +1;
59
           stack[top] = val;
                                                                                                        Enter the value?23
60
                                                                                                        Chose one from the below options...
61
62 }
63
                                                                                                        1. Push
64 void pop ()
                                                                                                        2.Pop
                                                                                                        3.Show
 65 - {
         if(top == -1)
                                                                                                        4.Exit
 66
        printf("Underflow");
                                                                                                        Enter your choice
 67
        else
 68
                                                                                                        Enter the value?45
         top = top -1;
 69
                                                                                                        Chose one from the below options...
  70 }
                                                                                                        1.Push
  71 void show()
                                                                                                        2.Pop
  72 - {
                                                                                                        3.Show
          for (i=top;i>=0;i--)
  73
                                                                                                        4.Exit
  74 -
                                                                                                        Enter your choice
             printf("%d\n",stack[i]);
  75
   76
                                                                                                        Enter the value?12
          if(top == -1)
                                                                                                        Chose one from the below options...
   78 -
              printf("Stack is empty");
                                                                                                       1.Push
```