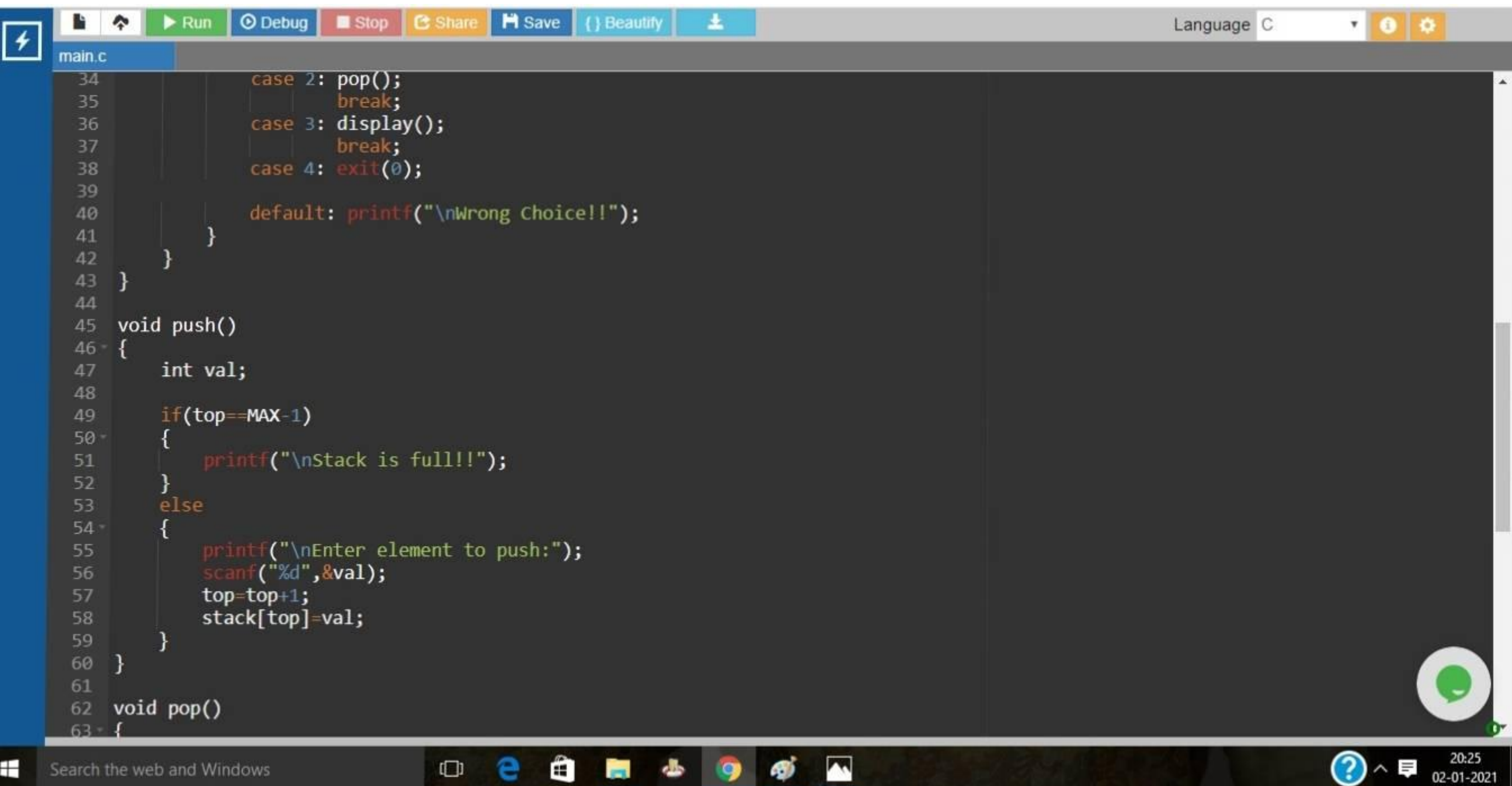


```
main.c
7  *****/
8
9  #include<stdio.h>
10 #include<stdlib.h>
11
12 #define MAX 5 //Maximum number of elements that can be stored
13
14 int top=-1,stack[MAX];
15 void push();
16 void pop();
17 void display();
18
19 void main()
20 {
21     int ch;
22
23     while(1) //infinite loop, will end when choice will be 4
24     {
25         printf("\n** Stack Menu **");
26         printf("\n\n1.Push\n2.Pop\n3.Display\n4.Exit");
27         printf("\n\nEnter your choice(1-4):");
28         scanf("%d",&ch);
29
30         switch(ch)
31         {
32             case 1: push();
33                     break;
34             case 2: pop();
35                     break;
36             case 3: display();
37                     break;
38             case 4: exit(0);
39                     break;
40         }
41     }
42 }
```



The image shows a screenshot of a code editor interface. At the top, there is a toolbar with icons for Run, Debug, Stop, Share, Save, Beautify, and a download icon. The language is set to C. The code is in a file named 'main.c' and is as follows:

```
34         case 2: pop();
35             break;
36         case 3: display();
37             break;
38         case 4: exit(0);
39
40         default: printf("\nWrong Choice!!");
41     }
42 }
43
44 void push()
45 {
46     int val;
47
48     if(top==MAX-1)
49     {
50         printf("\nStack is full!!");
51     }
52     else
53     {
54         printf("\nEnter element to push:");
55         scanf("%d",&val);
56         top=top+1;
57         stack[top]=val;
58     }
59 }
60
61 void pop()
62 {
63 }
```

The Windows taskbar is visible at the bottom, showing the search bar and several application icons. The system clock in the bottom right corner indicates the time is 20:25 on 02-01-2021.

```
main.c
60 }
61
62 void pop()
63 {
64     if(top== -1)
65     {
66         printf("\nStack is empty!!");
67     }
68     else
69     {
70         printf("\nDeleted element is %d",stack[top]);
71         top=top-1;
72     }
73 }
74
75 void display()
76 {
77     int i;
78
79     if(top== -1)
80     {
81         printf("\nStack is empty!!");
82     }
83     else
84     {
85         printf("\nStack is...\n");
86         for(i=top;i>=0;--i)
87             printf("%d\n",stack[i]);
88     }
89 }
```



input

```

** Stack Menu **

1.Push
2.Pop
3.Display
4.Exit

Enter your choice(1-4):1

Enter element to push:10

** Stack Menu **

1.Push
2.Pop
3.Display
4.Exit

Enter your choice(1-4):1

Enter element to push:20

** Stack Menu **

1.Push
2.Pop
3.Display

```

```
input
Enter your choice(1-4):1
Enter element to push:20
** Stack Menu **
1.Push
2.Pop
3.Display
4.Exit
Enter your choice(1-4):1
Enter element to push:30
** Stack Menu **
1.Push
2.Pop
3.Display
4.Exit
Enter your choice(1-4):3
Stack is...
30
20
10
```

Input

```
30
20
10

** Stack Menu **

1.Push
2.Pop
3.Display
4.Exit

Enter your choice(1-4):2

Deleted element is 30
** Stack Menu **

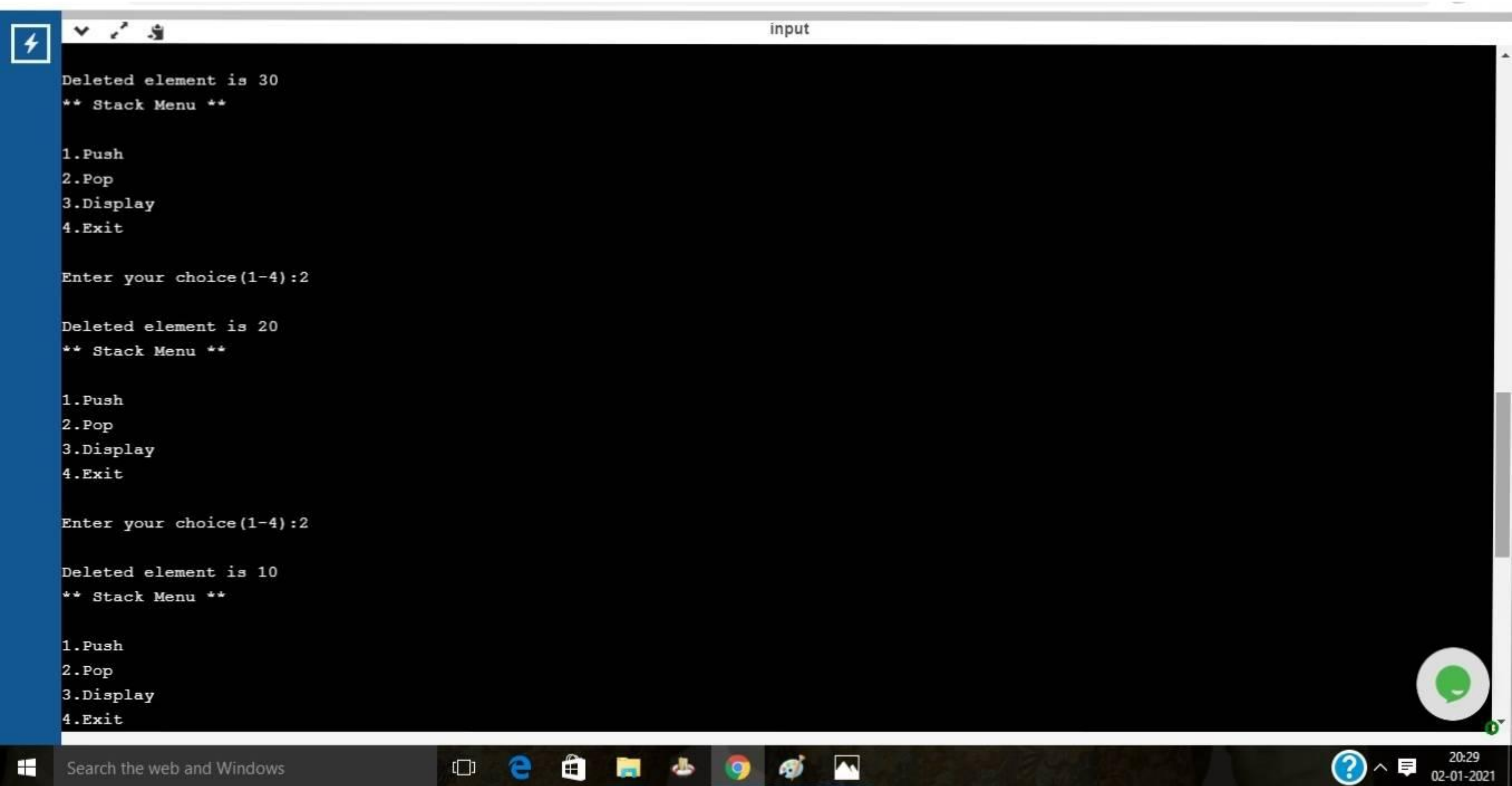
1.Push
2.Pop
3.Display
4.Exit

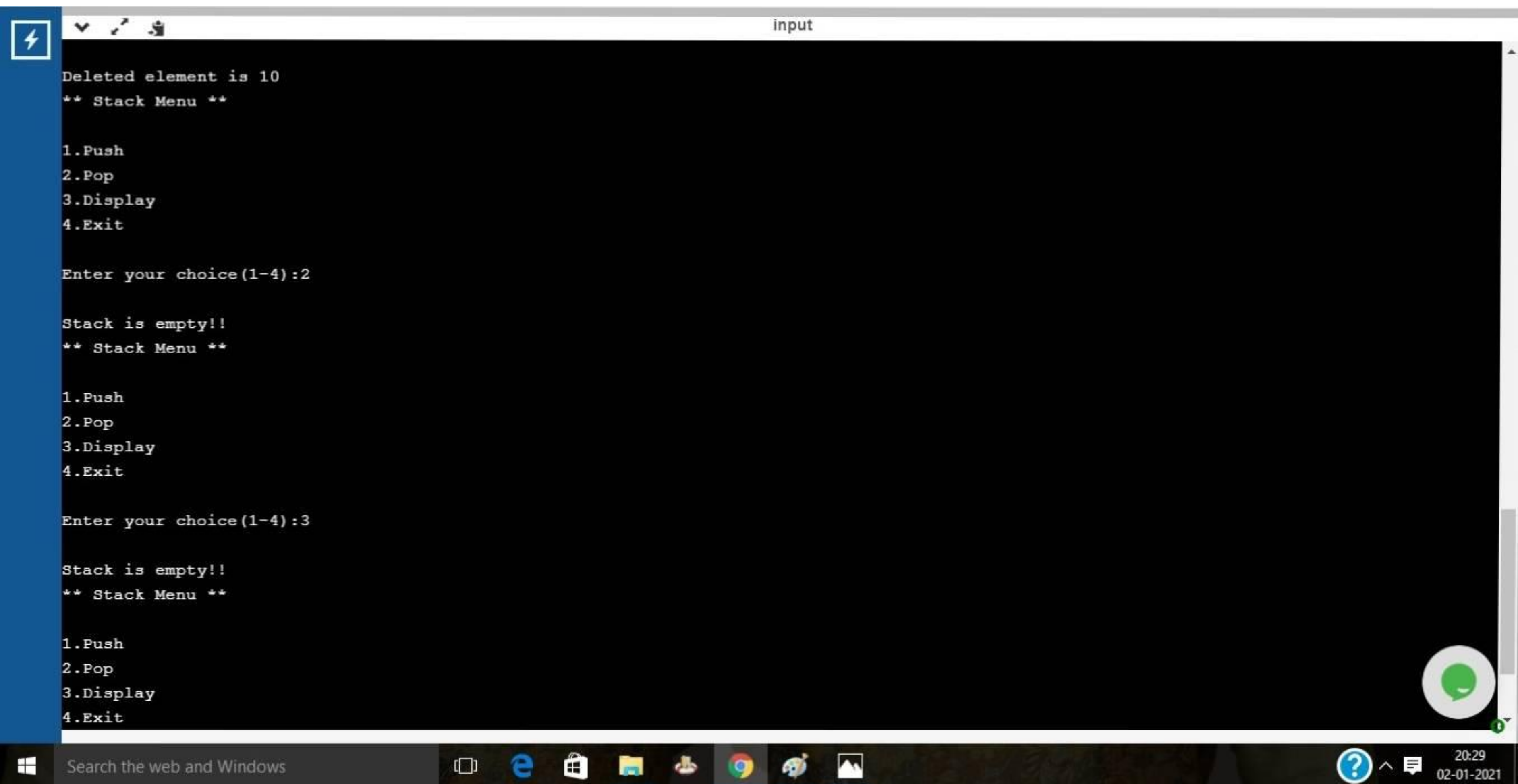
Enter your choice(1-4):2

Deleted element is 20
** Stack Menu **

1.Push
2.Pop
```

20:28 02-01-2021







```
input
3.Display
4.Exit

Enter your choice(1-4):2

Stack is empty!!
** Stack Menu **

1.Push
2.Pop
3.Display
4.Exit

Enter your choice(1-4):3

Stack is empty!!
** Stack Menu **

1.Push
2.Pop
3.Display
4.Exit

Enter your choice(1-4):4

...Program finished with exit code 0
Press ENTER to exit console.
```