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Language C

main.c

```
1 #include<stdio.h>
2 int stack[10],choice,n,top,x,i;
3
4 void push();
5 void pop();
6 void display();
7
8 int main()
9 {
10     top = -1;
11     printf("\n Enter the size of STACK : ");
12     scanf("%d",&n);
13     printf("\nSTACK IMPLEMENTATION USING ARRAYS\n");
14     do
15     {
16         printf("\n1.PUSH\n2.POP\n3.DISPLAY\n4.EXIT\n");
17         printf("\nEnter the choice : ");
18         scanf("%d",&choice);
19         switch(choice)
20         {
21             case 1:
22             {
23                 push();
24                 break;
25             }
26             case 2:
27             {
28                 pop();
29                 break;
30             }
31             case 3:
32             {
33                 display();
34                 break;
35             }
36             case 4:
37             {
38                 break;
39             }
40             default:
```

Stack implementation by Arrays

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Language: C

main.c

```
40 default:
41 {
42 printf ("\nInvalid Choice\n");
43 }
44 while(choice!=4);
45 return 0;
46 }
47
48 void push()
49 {
50 if(top >= n - 1)
51 {
52 printf("\nSTACK OVERFLOW\n");
53 }
54 else
55 {
56 printf("Enter a value to be pushed : ");
57 scanf("%d",&x);
58 top++;
59 stack[top] = x;
60 }
61 }
62
63 void pop()
64 {
65 if(top <= -1)
66 {
67 printf("\nSTACK UNDERFLOW\n");
68 }
69 else
70 {
71 printf("\nThe popped element is %d",stack[top]);
72 top--;
73 }
74 }
75 void display()
76 {
77 if(top >= 0)
78 {
79
```

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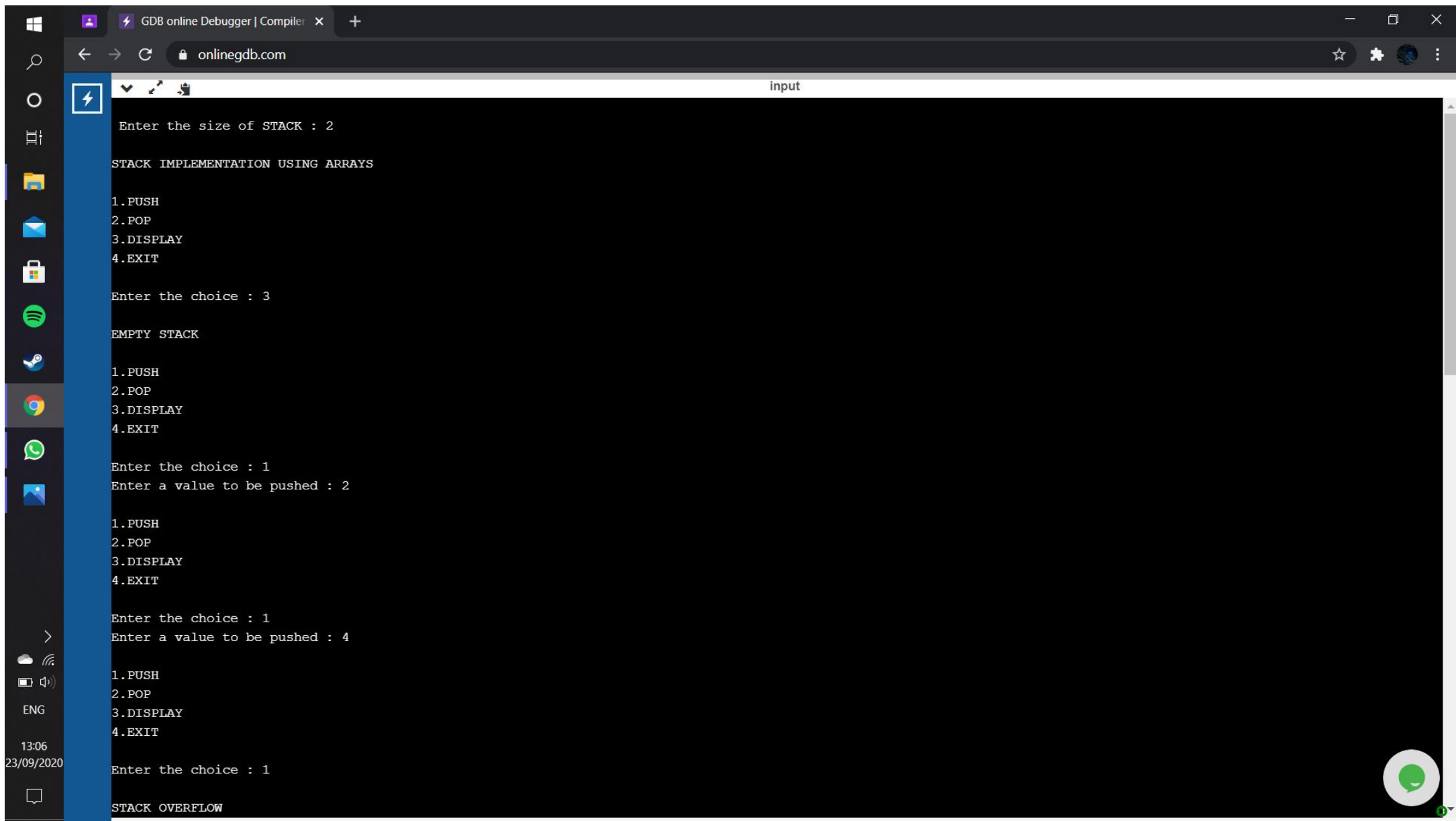
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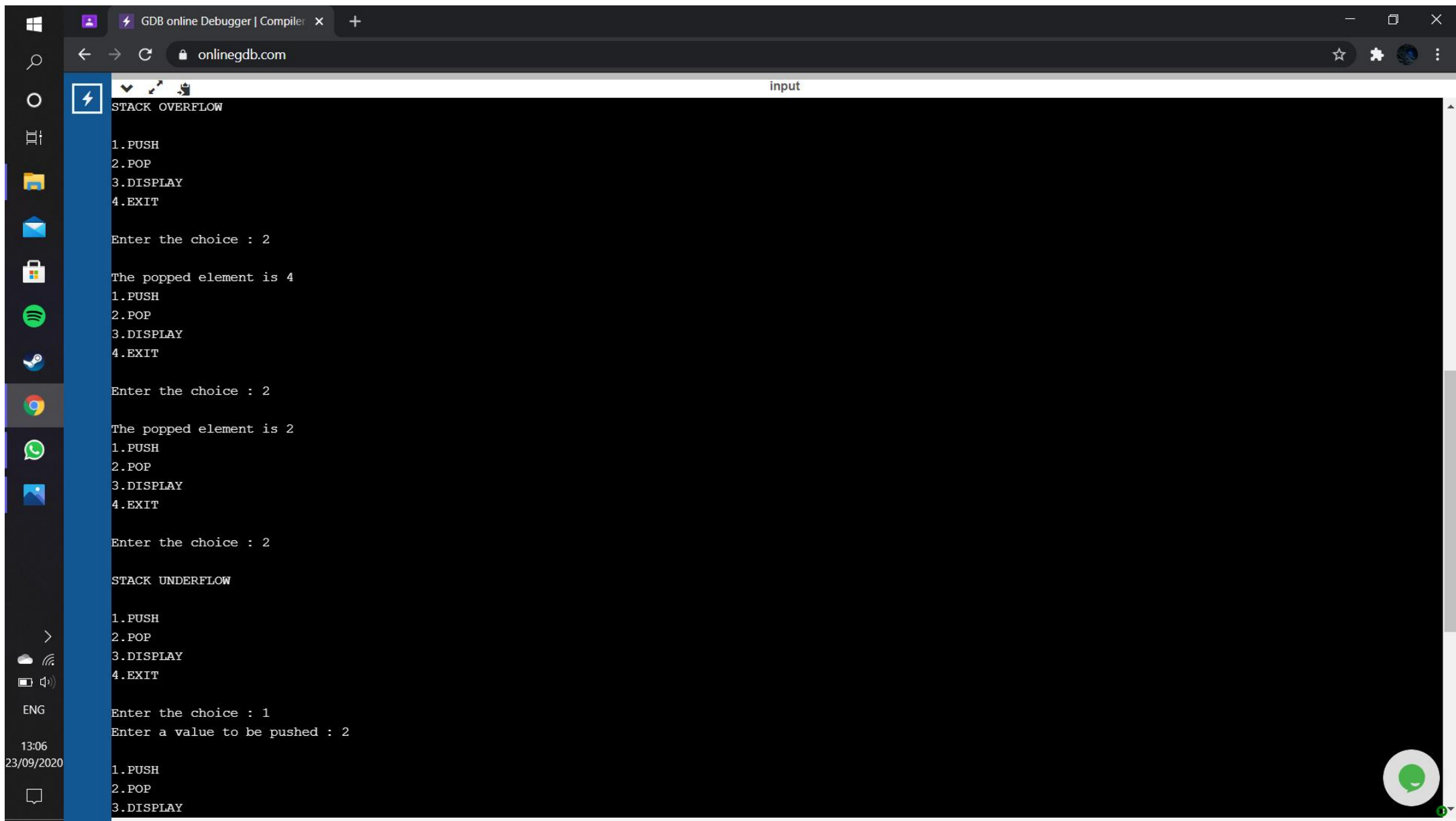
Language C

main.c

```
48 void push()
49 {
50     if(top >= n - 1)
51     {
52         printf("\nSTACK OVERFLOW\n");
53     }
54     else
55     {
56         printf("Enter a value to be pushed : ");
57         scanf("%d",&x);
58         top++;
59         stack[top] = x;
60     }}
61
62
63 void pop()
64 {
65     if(top <= -1)
66     {
67         printf("\nSTACK UNDERFLOW\n");
68     }
69     else
70     {
71         printf("\nThe popped element is %d",stack[top]);
72         top--;
73     }}
74
75 void display()
76 {
77     if(top >= 0)
78     {
79
80         printf("\nELEMENTS IN THE STACK\n\n");
81         for(i = top ; i >= 0 ; i--)
82             printf("%d\t",stack[i]);
83     }
84     else
85     {
86         printf("\nEMPTY STACK\n");
87     }}
```

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Language C

main.c

```
37
38 void push(int *item,int s[],int *top)
39 {
40     if(*top==STACK_SIZE-1)
41     {
42         printf("\nStack overflow\n");
43         return;
44     }
45     (*top)++;
46     s[*top]=*item;
47 }
48
49
50 int pop(int s[],int *top)
51 {
52     int item_deleted;
53     if(*top== -1)
54     {
55         printf("\nStack underflow \n");
56         return -1;
57     }
58
59     item_deleted = s[*top];
60     return item_deleted;
61 }
62
63 void display(int *top,int s[])
64 {
65     if(*top== -1)
66     {
67         printf("\nstack is empty\n");
68         return;
69     }
70
71     printf("\nContents of the stack \n");
72     for(int i=*top;i>=0;i--)
73     {
74         printf("%d\n",s[i]);
75     }
76 }
```

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