



# SCSA2602-Compiler Design Lab

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**Started on** Tuesday, 25 January 2022, 2:00 PM  
**State** Finished  
**Completed on** Tuesday, 25 January 2022, 2:04 PM  
**Time taken** 4 mins 35 secs  
**Marks** 1.00/1.00  
**Grade** 10.00 out of 10.00 (100%)

## Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Write a C program to find the sum of digits of a number until a single digit is occurred

**Answer:** (penalty regime: 0 %)

```
1 #include<stdio.h>
2
3 int DigSum(int n)
4 {
5     int sum = 0;
6
7     while(n > 0 || sum > 9)
8     {
9         if(n == 0)
```

## Quiz navigation



Finish review



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4 {
5     int sum = 0;
6
7     while(n > 0 || sum > 9)
8     {
9         if(n == 0)
10        {
11            n = sum;
12            sum = 0;
13        }
14        sum += n % 10;
15        n /= 10;
16    }
17    return sum;
18 }
19
20 int main()
21 {
22     int n;
```

**Quiz navigation**

Finish review

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12         sum = 0;
13     }
14     sum += n % 10;
15     n /= 10;
16 }
17 return sum;
18 }
19
20 int main()
21 {
22     int n;
23     scanf("%d", &n);
24     printf("%d", DigSum(n));
25     return 0;
26 }
```

**Quiz navigation**1  
✓

Finish review

Mark 1.00 out of 1.00

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25     return 0;
26 }

```

	Test	Input	Expected	Got	
✓	Test case 1	55	1	1	✓
✓	Test case 2	22	4	4	✓

Passed all tests! ✓



✓	Test case 1	55	1	1	✓
✓	Test case 2	22	4	4	✓

Passed all tests! ✓

### Question author's solution (C):

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int x;
6     scanf("%d", &x);
7
8     if (x == 0)
9         printf("%d", 0);
10    else if (x % 9 == 0)
11        printf("%d", 9);
12    else
13        printf("%d", x % 9);
14
15    printf("\n");
16
17    return 0;
18 }
19
```

Correct

Marks for this submission: 1.00/1.00.



```
18 }  
19
```

Submitted

Marks for this submission: 1.00/1.00.

Finish review

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